

Thr Gly Asp Leu Ala Val Glu Leu Ser Lys Thr Asp Pro Ala Ser Leu
 450 455 460
 Glu Thr Gly Gln Asp Ser Glu Asp Asp Ser Gly Glu Pro Glu Asp Trp
 465 470 475 480
 Val Pro Asp Pro Val Asp Ala Asp Pro Gly Lys Ser Ser Ser Lys Arg
 485 490 495
 Arg Ser Ser Asp Ile Ile Ser Leu Leu Val Ser Ile Tyr Gly Ser Lys
 500 505 510
 Asp Leu Phe Ile Asn Glu Tyr Arg Ser Leu Leu Ala Asp Arg Leu Leu
 515 520 525
 His Gln Phe Ser Phe Ser Pro Glu Arg Glu Ile Arg Asn Val Glu Leu
 530 535 540
 Leu Lys Leu Arg Phe Gly Glu Ala Pro Met His Phe Cys Glu Val Met
 545 550 555 560
 Leu Lys Asp Met Ala Asp Ser Arg Arg Ile Asn Ala Asn Ile Arg Glu
 565 570 575
 Glu Asp Glu Lys Arg Pro Ala Glu Glu Gln Pro Pro Phe Gly Val Tyr
 580 585 590
 Ala Val Ile Leu Ser Ser Glu Phe Trp Pro Pro Phe Lys Asp Glu Lys
 595 600 605
 Leu Glu Val Pro Glu Asp Ile Arg Ala Ala Leu Glu Ala Tyr Cys Lys
 610 615 620
 Lys Tyr Glu Gln Leu Lys Ala Met Arg Thr Leu Ser Trp Lys His Thr
 625 630 635 640
 Leu Gly Leu Val Thr Met Asp Val Glu Leu Ala Asp Arg Thr Leu Ser
 645 650 655
 Val Ala Val Thr Pro Val Gln Ala Val Ile Leu Leu Tyr Phe Gln Asp
 660 665 670
 Gln Ala Ser Trp Thr Leu Glu Glu Leu Ser Lys Ala Val Lys Met Pro
 675 680 685
 Val Ala Leu Leu Arg Arg Arg Met Ser Val Trp Leu Gln Gln Gly Val
 690 695 700
 Leu Arg Glu Glu Pro Pro Gly Thr Phe Ser Val Ile Glu Glu Glu Arg
 705 710 715 720
 Pro Gln Asp Arg Asp Asn Met Val Leu Ile Asp Ser Asp Asp Glu Ser
 725 730 735
 Asp Ser Gly Met Ala Ser Gln Ala Asp Gln Lys Glu Glu Glu Leu Leu
 740 745 750

Leu Phe Trp Thr Tyr Ile Gln Ala Met Leu Thr Asn Leu Glu Ser Leu
 755 760 765
 Ser Leu Asp Arg Ile Tyr Asn Met Leu Arg Met Phe Val Val Thr Gly
 770 775 780
 Pro Ala Leu Ala Glu Ile Asp Leu Gln Glu Leu Gln Gly Tyr Leu Gln
 785 790 795 800
 Lys Lys Val Arg Asp Gln Gln Leu Val Tyr Ser Ala Gly Val Tyr Arg
 805 810 815
 Leu Pro Lys Asn Cys Ser
 820

<210> 1509
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 1509
 Met Leu Gln Ala Ala Ser Leu Ser Leu Val Thr Trp Val Val Cys Thr
 1 5 10 15
 Val Trp Leu Glu Thr Thr Val Pro Pro Ser Leu Pro Glu Pro Pro Met
 20 25 30
 Trp Pro Leu Ser Ser Asp Ser Ser Trp Ser Leu Trp Ile Ser Thr Gly
 35 40 45
 Met Ala Pro Ala Pro Ser Ser Ser Thr Arg Ser Phe Ser Val Leu Pro
 50 55 60
 Glu Ile Cys Phe Cys Leu Trp
 65 70

<210> 1510
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 1510
 Met Ala Gly Val Trp Asn Thr Ile Ala Leu Trp Phe Leu Ser Val Phe
 1 5 10 15
 Gly Val Ile Ser Ala Pro Thr Thr Gly Thr Ser Pro Thr Ser Cys Arg
 20 25 30
 Cys Val Gly Pro Arg Pro Pro Gly Cys Gly Pro Ala Gly
 35 40 45

<210> 1511
 <211> 101
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (67)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1511
 Met Glu Leu Glu Arg Cys Ser Val Val Leu Cys Ile Leu Ala Asn Leu
 1 5 10 15
 Ala Val Leu Arg Ala Leu Phe Leu Pro Cys Ile Ile Phe His Cys Val
 20 25 30
 Ser Asp Ser Arg Ser Val Asn Arg Glu Thr Lys Val Lys Phe Val His
 35 40 45
 Thr Ser Val His Gly Val Gly His Ser Phe Val Gln Ser Ala Phe Lys
 50 55 60
 Ala Phe Xaa Leu Val Pro Pro Glu Ala Val Pro Glu Gln Lys Asp Pro
 65 70 75 80
 Asp Pro Glu Phe Pro Thr Val Lys Tyr Pro Asn Pro Glu Glu Gly Lys
 85 90 95
 Gly Val Leu Val Thr
 100

<210> 1512
 <211> 77
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1512
 Met Ala Ala Arg Ser Ala Leu Ala Leu Leu Leu Leu Pro Val Leu
 1 5 10 15
 Leu Leu Pro Val Gln Ser Arg Ser Glu Pro Glu Thr Thr Ala Pro Thr
 20 25 30
 Pro Thr Pro Ile Pro Gly Gly Asn Ser Ser Xaa Ser Arg Pro Leu Pro
 35 40 45
 Ser Ile Glu Leu His Ala Cys Gly Pro Tyr Pro Lys Pro Gly Leu Leu
 50 55 60

Ile Leu Leu Ala Pro Leu Ala Leu Trp Pro Ile Leu Leu
65 70 75

<210> 1513
<211> 188
<212> PRT
<213> Homo sapiens

<400> 1513
Met Ile Leu Thr Met Leu Leu Met Leu Lys Leu Cys ThrGlu Val Arg
1 5 10 15
Val Ala Asn Glu Leu Asn Ala Arg Arg Arg Ser Phe Thr Ala Ala Asp
20 25 30
Ser Lys Asp Glu Glu Val Lys Val Ala Pro Arg Arg Ser PheLeu Asp
35 40 45
Phe Asp Pro His His Phe Trp Gln Trp Ser Ser Phe Ser Asp Tyr Val
50 55 60
Gln Cys Val Leu Ala Phe Thr Gly Val Ala Gly Tyr Ile Thr Tyr Leu
65 70 75 80
Ser Ile Asp Ser Ala Leu Phe Val Glu Thr Leu Gly Phe Leu Ala Val
85 90 95
Leu Thr Glu Ala Met Leu Gly Val Pro Gln Leu Tyr Arg Asn His Arg
100 105 110
His Gln Ser Thr Glu Gly Met Ser Ile Lys Met Val Leu Met Trp Thr
115 120 125
Ser Gly Asp Ala Phe Lys Thr Ala Tyr Phe Leu Leu Lys Gly Ala Pro
130 135 140
Leu Gln Phe Ser Val Cys Gly Leu Leu Gln Val Leu Val Asp Leu Ala
145 150 155 160
Ile Leu Gly Gln Ala Tyr Ala Phe Ala Arg His Pro Gln Lys Pro Ala
165 170 175
Pro His Ala Val His Pro Thr Gly Thr Lys Ala Leu
180 185

<210> 1514
<211> 86
<212> PRT
<213> Homo sapiens

<400> 1514
Met Leu Leu Gly Gly Arg Leu Leu Thr Gly Leu Ala Cys Gly ValAla

1	5	10	15
Ser Leu Val Ala Pro Val Ser Val Pro Ser Leu Glu Cys Pro Val Ser	20	25	30
Arg Pro Glu Thr Glu Gly Glu Trp Asp Lys Pro Leu Pro Arg Pro Gly	35	40	45
Gly Ala Ala Pro Pro Gly Gly Thr Phe Trp Val Pro Gly Leu Lys Ser	50	55	60
Leu Arg Tyr Leu Ala Val Pro Pro Val Asp Pro Gly Lys Asp Pro Thr	65	70	75
Val Leu Ser Ile Leu His	85		

<210> 1515
 <211> 246
 <212> PRT
 <213> Homo sapiens

<400> 1515
Met Ala Leu Leu Cys Leu Val Cys Leu Thr Ala Ala Leu Ala His
1 5 10 15
Gly Cys Leu His Cys His Ser Asn Phe Ser Lys Lys Phe Ser Phe Tyr
20 25 30
Arg His His Val Asn Phe Lys Ser Trp Trp Val Gly Asp Ile Pro Val
35 40 45
Ser Gly Ala Leu Leu Thr Asp Trp Ser Asp Asp Thr Met Lys Glu Leu
50 55 60
His Leu Ala Ile Pro Ala Lys Ile Thr Arg Glu Lys Leu Asp Gln Val
65 70 75 80
Ala Thr Ala Val Tyr Gln Met Met Asp Gln Leu Tyr Gln Gly Lys Met
85 90 95
Tyr Phe Pro Gly Tyr Phe Pro Asn Glu Leu Arg Asn Ile Phe Arg Glu
100 105 110
Gln Val His Leu Ile Gln Asn Ala Ile Ile Glu Ser Arg Ile Asp Cys
115 120 125
Gln His Arg Cys Gly Lys Gln Gly Ser Val Gln Ala Glu Gly Arg Ala
130 135 140
Gly Gly Ser Ser Gly Pro Trp Arg Leu Arg Gly Ala Leu Ala Ala Leu
145 150 155 160
Val Arg Val Ser Gly Ile Phe Gln Tyr Glu Thr Ile Ser Cys Asn Asn
165 170 175

Cys Thr Asp Ser His Val Ala Cys Phe Gly Tyr Asn Cys Glu Ser Ser
 180 185 190
 Ala Gln Trp Lys Ser Ala Val Gln Gly Leu Leu Asn Tyr Ile Asn Asn
 195 200 205
 Trp His Lys Gln Asp Thr Ser Met Ser Leu Val Ser Pro Ala Leu Arg
 210 215 220
 Cys Leu Glu Pro Pro His Leu Ala Asn Leu Thr Leu Glu Asp Ala Ala
 225 230 235 240
 Glu Cys Leu Lys Gln His
 245

<210> 1516
 <211> 246
 <212> PRT
 <213> Homo sapiens

<400> 1516
 Met Gly Pro Gln His Leu Arg Leu Val Gln Leu Phe Cys Leu Leu Gly
 1 5 10 15
 Ala Ile Ser Thr Leu Pro Arg Ala Gly Ala Leu Leu Cys Tyr Glu Ala
 20 25 30
 Thr Ala Ser Arg Phe Arg Ala Val Ala Phe His Asn Trp Lys Trp Leu
 35 40 45
 Leu Met Arg Asn Met Val Cys Lys Leu Gh Glu Gly Cys Glu Glu Thr
 50 55 60
 Leu Val Phe Ile Glu Thr Gly Thr Ala Arg Gly Val Val Gly Phe Lys
 65 70 75 80
 Gly Cys Ser Ser Ser Ser Ser Tyr Pro Ala Gln Ile Ser Tyr Leu Val
 85 90 95
 Ser Pro Pro Gly Val Ser Ile Ala Ser Tyr Ser Arg Val Cys Arg Ser
 100 105 110
 Tyr Leu Cys Asn Asn Leu Thr Asn Leu Glu Pro Phe Val Lys Leu Lys
 115 120 125
 Ala Ser Thr Pro Lys Ser Ile Thr Ser Ala Ser Cys Ser Cys Pro Thr
 130 135 140
 Cys Val Gly Glu His Met Lys Asp Cys Leu Pro Asn Phe Val Thr Thr
 145 150 155 160
 Asn Ser Cys Pro Leu Ala Ala Ser Thr Cys Tyr Ser Ser Thr Leu Lys
 165 170 175

Phe Gln Ala Gly Phe Leu Asn Thr Thr Phe Leu Leu Met Gly Cys Ala
 180 185 190
 Arg Glu His Asn Gln Leu Leu Ala Asp Phe His His Ile Gly Ser Ile
 195 200 205
 Lys Val Thr Glu Val Leu Asn Ile Leu Glu Lys Ser Gln Ile Val Gly
 210 215 220
 Ala Ala Ser Ser Arg Gln Asp Pro Ala Trp Gly Val Val Leu Gly Leu
 225 230 235 240
 Leu Phe Ala Phe Arg Asp
 245

<210> 1517

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1517

Met Trp Ser Ser Ser Trp Asp His Arg Ile Thr Thr Pro Arg Leu Ala
 1 5 10 15

Asn Phe Phe Phe Phe Phe Phe Phe Phe Phe Val Glu Met Gly Phe
 20 25 30

Arg Tyr Val Gly Gln Ala Gly Leu Lys Leu Leu Ala Ser Ser Asn Leu
 35 40 45

Pro Ala Leu Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His His
 50 55 60

Xaa Trp Leu Gly Gly Leu Ile Lys Thr Pro Ile Leu Ser Leu Thr Pro
 65 70 75 80

Arg Val Ser Gly

<210> 1518

<211> 40

<212> PRT

<213> Homo sapiens

<400> 1518

Met Leu Gln Glu Val Lys Leu Asp Phe Leu Trp Leu Leu Asn Leu Pro
 1 5 10 15

Leu Ile Leu Leu Phe Ser Ile Leu Glu Ser Ser Met Lys Ie Cys Thr
 20 25 30

Asn Ala Met Phe Thr Arg Thr Gly
 35 40

<210> 1519

<211> 110

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1519

Met Phe Leu Ala Ser Trp Leu Leu Phe Cys Ile Val Ala Pro Lys Asp
 1 5 10 15

Asp Ala His Leu Ser Phe Ile Gln Cys Lys Asp Ile Trp Lys Asp Asn
 20 25 30

Arg Lys Tyr Ser Cys Phe His Phe Lys Ser Asp Gln Leu Leu Glu Leu
 35 40 45

Ala Ser Lys Ala Cys Thr Ser Phe Gln Ala Gln Ser Arg Ser Phe Thr
 50 55 60

Ala Gly Ala Val Pro Ser Glu His Pro Glu Leu Pro Cys Gly Ser Gln
 65 70 75 80

Gln Leu Cys Cys Gly Cys Thr Ala Arg Leu Gly Gly Xaa Trp Ile Gly
 85 90 95

Ala Ser Arg Cys Gly Ser Gly Ser Ala Phe Leu Ala Ser Pro
 100 105 110

<210> 1520

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1520

Met Trp Thr Ala Arg Arg Cys Thr Glu Thr Val Ala Val Ser Leu Arg
 1 5 10 15

Ile Phe Pro Leu Val Leu Ala Met Pro Leu Gln Gly Lys Cys Thr Ser

20 25 30
 Thr Cys Gln Arg Lys Pro Leu Leu Leu Val Phe Ile Phe Val Val Asn
 35 40 45
 Phe Leu Tyr Ile Pro Xaa Ala Ala Phe Leu His
 50 55

<210> 1521
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 1521
 Met Lys Tyr Leu Leu Phe Leu Val Phe Cys Leu Ser Tyr Val Lys Asp
 1 5 10 15
 Leu Asn Ile Phe Asp Leu Leu Tyr
 20

<210> 1522
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1522
 Met Cys Leu Ala Phe Ser Val Ile Ile Leu Ala Gly Ala Gly Ser Ser
 1 5 10 15
 Arg Ser Trp Asn Ser Val Leu Val Glu Lys Glu Val Val Glu Gly Gly
 20 25 30
 Leu Gly Pro Trp Gly Asn Cys Ser Ala Glu Pro Leu Pro His Leu Leu
 35 40 45
 Leu Pro Arg Thr Asn Leu Lys Gly
 50 55

<210> 1523
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1523
 Met Asn Ala Ser Leu Ile Ser Trp Val Leu Val Leu His Arg Ile Cys
 1 5 10 15
 Leu Gly Leu Ser Asp Ile Pro Lys Glu Asn Cys Ile Ile Thr Ile Ser
 20 25 30
 Gly Met Gln Leu Ser His His Gly Gln Ser Leu Gly Lys Trp Ala Glu

35 40 45
 Lys Leu His Val Phe Tyr Ser Leu Phe Ser Phe Leu Leu
 50 55 60

<210> 1524
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1524
 Met Gln Glu Cys Leu Leu His Gly Cys Cys Cys Tyr Leu Leu Arg Leu
 1 5 10 15
 Gly Val Leu Gly Thr Val Gln Cys Ile Ser Thr Trp Leu Ile Leu Thr
 20 25 30
 Ala Asn Glu Gln His Arg Leu Lys Glu Thr Ser Asn Ser Gln Ser Pro
 35 40 45
 Ala Val Ser Arg Ala
 50

<210> 1525
 <211> 231
 <212> PRT
 <213> Homo sapiens

<400> 1525
 Met Trp Ala Leu Gln Leu Ser Leu Pro Thr Cys Gly Leu Ala Ala Leu
 1 5 10 15
 Leu Thr His Met Arg Pro Cys Ser Ser Pro Tyr Pro His Ala Gly Leu
 20 25 30
 Ala Ala Leu Leu Thr His Met Gly Pro Cys Arg Ser Pro Tyr Pro His
 35 40 45
 Gly Gly Leu Ala Ala Val Leu Thr His Met Arg Ala Leu Gln Leu Ser
 50 55 60
 Leu Pro Thr Trp Gly Leu Ala Ala Leu Leu Thr His Met Arg Pro Cys
 65 70 75 80
 Ser Ser Pro Tyr Pro His Ala Gly Leu Ala Cys Cys Trp Leu Trp Ser
 85 90 95
 Leu Ser Ser His Arg Ser Leu Gln Val Gln Ala Thr His Arg Leu Val
 100 105 110
 Val Arg Thr Ile Lys Asp Arg Val Met Leu Lys Val Leu Pro Gln Thr
 115 120 125

Arg Arg Arg Gly Pro Phe Leu Ser Ser Cys Arg Asn Asp Val Met Arg
 130 135 140
 Asn Cys Val Pro Arg His Ala Val Leu Val Thr Thr Cys Val Phe Val
 145 150 155 160
 Ser Phe Pro Thr His Cys Lys Val Gly Ile Thr Gly Pro Ile Thr Gln
 165 170 175
 Val Lys Gln Lys Pro Gly Asn His Ser Ser Pro Cys Pro Val Ile Gln
 180 185 190
 Leu Val Ala Lys Ala Glu Phe Glu Leu Met Leu Pro Ser Val Pro Lys
 195 200 205
 Pro Val Tyr Leu Thr Leu Val Leu Ser Cys Trp Cys Leu Cys Asp Val
 210 215 220
 Pro Cys Leu Ser Val Ser Leu
 225 230

<210> 1526
 <211> 50
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (50)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1526
 Met Asn Phe Leu Val Phe Leu Ser Leu Ser Ser Ser Leu Val Ser Ala
 1 5 10 15
 Ala Gly Pro Arg Phe Pro Ser Arg Glu Glu Arg Gly Val Gly Gly Val
 20 25 30
 Val Leu Ile Lys Ser Glu Asp Met Thr Leu Xaa Glu Arg Ser Lys Gly
 35 40 45
 Ser Xaa
 50

<210> 1527
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 1527

Met Cys Gly Leu Val Ile Leu Trp Pro Cys Ile Met Thr Leu Phe Ser
1 5 10 15

Ser Leu Ser Thr Gly Asp Val Leu Leu Pro Cys Lys Ile Leu Val Gly
20 25 30

Leu Arg Val Phe Ile Gly Ala Arg Val
35 40

<210> 1528

<211> 32

<212> PRT

<213> Homo sapiens

<400> 1528

Met Pro Val Pro Leu Trp Leu Val Leu Trp Phe Cys Phe Leu Leu Tyr
1 5 D 15

Val Ala Ser Arg Arg Thr Phe Gly Leu Ala Asn Tyr Met Pro Leu Pro
20 25 30

<210> 1529

<211> 362

<212> PRT

<213> Homo sapiens

<400> 1529

Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser Pro
1 5 10 15

Val His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala Ser Lys
20 25 30

Thr Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val Gln Asp Arg
35 40 45

Gly Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val Val Leu Glu His
50 55 60

Arg Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg His Phe Ala Gly Asp
65 70 75 80

Val Leu Gly Tyr Val Thr Pro Trp Asn Ser His Gly Tyr Asp Val Thr
85 90 95

Lys Val Phe Gly Ser Lys Phe Thr Gln Ile Ser Pro Val Trp Leu Gln
100 105 110

Leu Lys Arg Arg Gly Arg Glu Met Phe Glu Val Thr Gly Leu His Asp
 115 120 125
 Val Asp Gln Gly Trp Met Arg Ala Val Arg Lys His Ala Lys Gly Leu
 130 135 140
 His Ile Val Pro Arg Leu Leu Phe Glu Asp Trp Thr Tyr Asp Asp Phe
 145 150 155 160
 Arg Asn Val Leu Asp Ser Glu Asp Glu Ile Glu Glu Leu Ser Lys Thr
 165 170 175
 Val Val Gln Val Ala Lys Asn Gln His Phe Asp Gly Phe Val Val Glu
 180 185 190
 Val Trp Asn Gln Leu Leu Ser Gln Lys Arg Val Thr Asp Gln Leu Gly
 195 200 205
 Met Phe Thr His Lys Glu Phe Glu Gln Leu Ala Pro Val Leu Asp Gly
 210 215 220
 Phe Ser Leu Met Thr Tyr Asp Tyr Ser Thr Ala His Gln Pro Gly Pro
 225 230 235 240
 Asn Ala Pro Leu Ser Trp Val Arg Ala Cys Val Gln Val Leu Asp Pro
 245 250 255
 Lys Ser Lys Trp Arg Ser Lys Ile Leu Leu Gly Leu Asn Phe Tyr Gly
 260 265 270
 Met Asp Tyr Ala Thr Ser Lys Asp Ala Arg Glu Pro Val Val Gly Ala
 275 280 285
 Arg Tyr Ile Gln Thr Leu Lys Asp His Arg Pro Arg Met Val Trp Asp
 290 295 300
 Ser Gln Ala Ser Glu His Phe Phe Glu Tyr Lys Lys Ser Arg Ser Gly
 305 310 315 320
 Arg His Val Val Phe Tyr Pro Thr Leu Lys Ser Leu Gln Val Arg Leu
 325 330 335
 Glu Leu Ala Arg Glu Leu Gly Val Gly Val Ser Ile Trp Glu Leu Gly
 340 345 350
 Gln Gly Leu Asp Tyr Phe Tyr Asp Leu Leu
 355 360

<210> 1530

<211> 37

<212> PRT

<213> Homo sapiens

<400> 1530

Met Cys Tyr Ile Pro Gly Ser Thr Gly Gly Gln Cys Trp Pro Trp Cys

1	5	10	15
Trp Cys Trp	Leu Cys Arg	Glu Ala Leu	Glu Trp Leu Cys Gly Ala Val
	20	25	30
Ser Ala Gly	Pro Ala		
	35		

<210> 1531
 <211> 318
 <212> PRT
 <213> Homo sapiens

<400> 1531
 Met Ala Leu Met Leu Ser Leu Val Leu Ser Leu Leu Lys Leu Gly Ser
 1 5 10 15
 Gly Gln Trp Gln Val Phe Gly Pro Asp Lys Pro Val Gln Ala Leu Val
 20 25 30
 Gly Glu Asp Ala Ala Phe Ser Cys Phe Leu Ser Pro Lys Thr Asn Ala
 35 40 45
 Glu Ala Met Glu Val Arg Phe Phe Arg Gly Gln Phe Ser Ser Val Val
 50 55 60
 His Leu Tyr Arg Asp Gly Lys Asp Gln Pro Phe Met Gln Met Pro Gln
 65 70 75 80
 Tyr Gln Gly Arg Thr Lys Leu Val Lys Asp Ser Ile Ala Glu Gly Arg
 85 90 95
 Ile Ser Leu Arg Leu Glu Asn Ile Thr Val Leu Asp Ala Gly Leu Tyr
 100 105 110
 Gly Cys Arg Ile Ser Ser Gln Ser Tyr Tyr Gln Lys Ala Ile Trp Glu
 115 120 125
 Leu Gln Val Ser Ala Leu Gly Ser Val Pro Leu Ile Ser Ile Ala Gly
 130 135 140
 Tyr Val Asp Arg Asp Ile Gln Leu Leu Cys Gln Ser Ser Gly Trp Phe
 145 150 155 160
 Pro Arg Pro Thr Ala Lys Trp Lys Gly Pro Gln Gly Gln Asp Leu Ser
 165 170 175
 Thr Asp Ser Arg Thr Asn Arg Asp Met His Gly Leu Phe Asp Val Glu
 180 185 190
 Ile Ser Leu Thr Val Gln Glu Asn Ala Gly Ser Ile Ser Cys Ser Met
 195 200 205
 Arg His Ala His Leu Ser Arg Glu Val Glu Ser Arg Val Gln Ile Gly
 210 215 220

Asp Trp Arg Arg Lys His Gly Gln Ala Gly Lys Arg Lys Tyr Ser Ser
 225 230 235 240
 Ser His Ile Tyr Asp Ser Phe Pro Ser Leu Ser PheMet Asp Phe Tyr
 245 250 255
 Ile Leu Arg Pro Val Gly Pro Cys Arg Ala Lys Leu Val Met Gly Thr
 260 265 270
 Leu Lys Leu Gln Ile Leu Gly Glu Val His Phe Val GluLys Pro His
 275 280 285
 Ser Leu Leu Gln Ile Ser Gly Gly Ser Thr Thr Leu Lys Lys Gly Pro
 290 295 300
 Asn Pro Trp Ser Phe Pro Ser Pro Cys Ala Leu Phe Pro Thr
 305 310 315

<210> 1532
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 1532
 Met Ser Gln Leu Ser Arg Thr Ser Leu Ser Leu Leu Leu Thr Leu Leu
 1 5 10 15
 Val Leu Trp Gly Ser Ser Cys Cys Leu Pro Ile Trp Cys Leu Pro Asn
 20 25 30
 Arg His Arg Leu Leu Lys Leu Ser Phe Leu Leu Phe Ser Pro Asp Ile
 35 40 45
 Pro Tyr Leu Ser His Thr His Pro AsnAsn Ile Ser Cys Ser Val Leu
 50 55 60
 Ser Leu Arg Gln His Leu Asn Phe Thr Gln Pro Gly Ala Leu Phe Thr
 65 70 75 80
 Cys Leu Val Gln Ile Gln Phe Gly Leu Ile LeuGln Pro Cys Ile Ser
 85 90 95
 Lys Trp Gly Leu Gly
 100

<210> 1533
 <211> 85
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE

<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1533

Met Gly Met Pro Leu Val Thr Val Thr Ala Ala Thr Phe Pro Thr Leu
1 5 10 15
Ser Cys Pro Pro Arg Ala Trp Pro Glu Val Glu Ala Pro Glu Ala Pro
20 25 30
Ala Leu Pro Val Val Pro Glu Leu Pro Glu Val Pro Met Glu Met Pro
35 40 45
Leu Val Leu Pro Pro Glu Leu Glu Leu Leu Ser Leu Glu Ala Val His
50 55 60
Arg Tyr Gln Xaa Gly Gly Thr Leu Met Gly Trp Thr Arg Ala Glu Ala
65 70 75 80
Ser Ala Asn Gly Ser
85

<210> 1534

<211> 111

<212> PRT

<213> Homo sapiens

<400> 1534

Met Gln Phe Ser Leu Cys Leu Thr Ala Val Phe Leu Leu Gln Leu Ala
1 5 10 15
Ala Gly Ile Leu Gly Phe Val Phe Ser Asp Lys Ala Arg Gly Lys Val
20 25 30
Ser Glu Ile Ile Asn Asn Ala Ile Val His Tyr Arg Asp Asp Leu Asp
35 40 45
Leu Gln Asn Leu Ile Asp Phe Gly Gln Lys Lys Val Trp Val Ser Gln
50 55 60
Trp Ser Gly Gly Leu Trp Val Lys Val Asn Val Ile Pro Arg Asp Ala
65 70 75 80
Ser Pro Ser Met Pro Val Gly Leu Phe Ile Thr Cys Gln Val Met Ala
85 90 95
Ser Gly Lys Gly Phe Gly Lys Lys Ser Thr Arg Ser Arg Val Leu
100 105 110

<210> 1535

<211> 102

<212> PRT

<213> Homo sapiens

<400> 1535

Met Leu Cys His Pro His Val His His His Leu Val Cys Leu Leu Ala
1 5 10 15
Thr Leu Thr Phe Ser Leu Asn Ala Ser Cys Ala Glu Gln Thr Phe His
20 25 30
Ser Gln Gln Ser Asn Gly Glu Phe Met Ala Thr Leu Pro Ser Ile Ser
35 40 45
Lys Gln Phe Gly Val Ile Val Trp Lys Pro Gln Arg Lys Asp Val Ile
50 55 60
Arg Leu Pro Val Ala Leu Ser Phe Ser Ser Gly Ala Arg Leu Ala Phe
65 70 75 80
Thr Cys Leu Arg Lys Ile Ser Gly Phe Arg Ala Leu Ile Trp Gly Glu
85 90 95
Asp Lys Gly Trp Asp Leu
100

<210> 1536

<211> 201

<212> PRT

<213> Homo sapiens

<400> 1536

Met Phe Phe Leu Gly Ala Val Leu Cys Leu Ser Phe Ser Trp Leu Phe
1 5 10 15
His Thr Val Tyr Cys His Ser Glu Lys Val Ser Arg Thr Phe Ser Lys
20 25 30
Leu Asp Tyr Ser Gly Ile Ala Leu Leu Ile Met Gly Ser Phe Val Pro
35 40 45
Trp Leu Tyr Tyr Ser Phe Tyr Cys Ser Pro Gln Pro Arg Leu Ile Tyr
50 55 60
Leu Ser Ile Val Cys Val Leu Gly Ile Ser Ala Ile Ile Val Ala Gln
65 70 75 80
Trp Asp Arg Phe Ala Thr Pro Lys His Arg Gln Thr Arg Ala Gly Val
85 90 95
Phe Leu Gly Leu Gly Leu Ser Gly Val Val Pro Thr Met His Phe Thr
100 105 110
Ile Ala Glu Gly Phe Val Lys Ala Thr Thr Val Gly Gln Met Gly Trp
115 120 125
Phe Phe Leu Met Ala Val Met Tyr Ile Thr Gly Ala Gly Leu Tyr Ala
130 135 140

Ala Arg Ile Pro Glu Arg Phe Phe Pro Gly Lys Phe Asp Ile Trp Phe
145 150 155 160

Gln Ser His Gln Ile Phe His Val Leu Val Val Ala Ala Ala Phe Val
165 170 175

His Phe Tyr Gly Val Ser Asn Leu Gln Glu Phe Arg Tyr Gly Leu Glu
180 185 190

Gly Gly Cys Thr Asp Asp Thr Leu Leu
195 200

<210> 1537
<211> 102
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1537
Met Gly Arg Arg Ser Gly Leu Leu Gly Leu Arg Pro Gly Arg Ser Arg
1 5 D 15

Trp Arg Trp Ser Gly Ser Val Trp Val Arg Ser Val Leu Leu Leu Leu
20 25 30

Gly Gly Leu Arg Ala Ser Ala Thr Ser Thr Pro Val Ser Leu Gly Ser
35 40 45

Ser Pro Pro Cys Arg His His Val Pro Ser Asp Thr Glu Val Ile Asn
50 55 60

Lys Val His Leu Lys Ala Asn His Val Val Lys Arg Asp Val Asp Glu
65 70 75 8

His Leu Arg Ile Lys Thr Val Tyr Asp Lys Xaa Xaa Xaa Ser Cys Ser
85 90 95

Leu Arg Lys Arg Ile Leu
100

<210> 1538
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 1538
 Met Ser Pro His Gln Pro Met Gln Val Ser Ser Ser Lys Thr Ile Leu
 1 5 10 15
 Trp Leu Val Leu Ser Cys Leu Cys Pro Ser Ser Pro His Pro Val Ile
 20 25 30
 Ser Gly Leu Pro Gln Trp Tyr Ile Gly Val Leu Ala Gly Ile Val Pro
 35 40 45
 Val Ala Pro Ile Arg Pro Gly Asp Ser Gly Leu Asp Leu Gln Arg Glu
 50 55 60
 Gly Pro Gln Pro Ile Leu Ser Gln Gly Leu Asn Arg Arg Thr
 65 70 75

<210> 1539
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 1539
 Met Met Leu Gly Leu Arg Gln Lys Leu Thr Thr Ser Leu Thr Ser Ala
 1 5 10 15
 Ala Ala Leu Thr Cys Val Leu Leu Leu Ser Met Thr Gly Met Thr Thr
 20 25 30
 Ser Ser Ser Arg Ser Val Leu Trp Lys Thr
 35 40

<210> 1540
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 1540
 Met Cys Trp Ile Cys Val Trp Leu Phe Phe Ser Pro Thr Lys Thr Ser
 1 5 10 15
 Cys Phe Pro Trp Leu Ile Arg Pro Gly Pro Arg Ser Phe Thr Asp Ser
 20 25 30
 His Gly Thr Pro Pro Trp Gln Cys Leu Glu Pro Ser Arg Phe Tyr Val
 35 40 45

Pro Trp Glu Ala Ser Val Val Thr Phe Phe Ala Ala Gly Ser Ala Lys
 50 55 60

Met Ser Cys Gln Ser Trp Leu Ala Pro
 65 70

<210> 1541
 <211> 159
 <212> PRT
 <213> Homo sapiens

<400> 1541
 Met Ser Gln Ala Trp Val Pro Gly Leu Ala Pro Thr Leu Leu Phe Ser
 1 5 10 15
 Leu Leu Ala Gly Pro Gln Lys Ile Ala Ala Lys Cys Gly Leu Ile Leu
 20 25 30
 Ala Cys Pro Lys Gly Phe Lys Cys Cys Gly Asp Ser Cys Cys Gln Glu
 35 40 45
 Asn Glu Leu Phe Pro Gly Pro Val Arg Ile Phe Val Ile Ile Phe Leu
 50 55 60
 Val Ile Leu Ser Val Phe Cys Ile Cys Gly Leu Ala Lys Cys Phe Cys
 65 70 75 80
 Arg Asn Cys Arg Glu Pro Glu Pro Asp Ser Pro Val Asp Cys Arg Gly
 85 90 95
 Pro Leu Glu Leu Pro Ser Ile Ile Pro Pro Glu Arg Val Arg Val Ser
 100 105 110
 Leu Ser Ala Pro Pro Pro Pro Tyr Ser Glu Val Ile Leu Lys Pro Ser
 115 120 125
 Leu Gly Pro Thr Pro Thr Glu Pro Pro Pro Pro Tyr Ser Phe Arg Pro
 130 135 140
 Glu Glu Tyr Thr Gly Asp Gln Arg Gly Ile Asp Asn Pro Ala Phe
 145 150 155

<210> 1542
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1542
 Met Lys Pro Thr Arg Ser Leu Trp Ile Ser Phe Leu Met Cys Cys Trp
 1 5 10 15
 Ile Trp Phe Ala Asn Ile Leu Leu Arg Ile Phe Ala Ser Val Phe Phe
 20 25 30
 \

Arg Asp Ile Gly Leu Lys Phe Ser Phe Phe Cys Cys Val Ser Ala Arg
35 40 45
Leu Trp Tyr Gln Asp Asp Ala Gly Leu Ile Asn Glu Leu Gly Arg Ile
50 55 60
Pro Ser Phe Tyr
65

<210> 1543
<211> 151
<212> PRT
<213> Homo sapiens

<400> 1543
Met Arg Arg Leu Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp
1 5 10 15
Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val
20 25 30
Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg
35 40 45
Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro
50 55 60
Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Gln
65 70 75 80
Gly Arg Gly Pro Ile Leu Pro Gly Thr Lys Ala Trp Met Glu Thr Glu
85 90 95
Asp Thr Leu Gly Arg Val Leu Ser Pro Glu Pro Asp His Asp Ser Leu
100 105 110
Tyr His Pro Pro Pro Glu Glu Asp Gln Gly Glu Glu Arg Pro Arg Leu
115 120 125
Trp Val Met Pro Asn His Gln Val Leu Leu Gly Pro Glu Glu Asp En
130 135 140
Asp His Ile Tyr His Pro Gln
145 150

<210> 1544
<211> 506
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (65)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (112)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (423)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (425)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 1544
 Met Gly Met Arg Arg His Ser Leu Met Leu Leu Pro Trp Trp Leu Gly
 1 5 10 15

 Ala Ala Gly Arg Lys Glu Cys His Arg Glu Gln Leu Val Ala Ala Val
 20 25 30

 Glu Val Thr Glu Gln Glu Thr Lys Val Pro Lys Lys Thr Val Ile Ile
 35 40 45

 Glu Glu Thr Ile Thr Thr Val Val Lys Ser Pro Arg Gly Gln Arg Arg
 50 55 60

 Xaa Pro Ser Lys Ser Pro Ser Arg Ser Pro Ser Arg Cys Ser Ala Ser
 65 70 75 80

 Pro Leu Arg Pro Gly Leu Leu Ala Pro Asp Leu Leu Tyr Leu Pro Gly
 85 90 95

 Ala Gly Gln Pro Arg Arg Pro Glu Ala Glu Pro Gly Gln Lys Pro Xaa
 100 105 110

 Val Pro Thr Leu Tyr Val Thr Glu Ala Glu Ala His Ser Pro Ala Leu
 115 120 125

 Pro Gly Leu Ser Gly Pro Gln Pro Lys Trp Val Glu Val Glu Glu Thr
 130 135 140

 Ile Glu Val Arg Val Lys Lys Met Gly Pro Gln Gly Val Ser Pro Thr
 145 150 155 160

 Thr Glu Val Pro Arg Ser Ser Ser Gly His Leu Phe Thr Leu Pro Gly
 165 170 175

 Ala Thr Pro Gly Gly Asp Pro Asn Ser Asn Asn Ser Asn Asn Lys Leu
 180 185 190

 Leu Ala Gln Glu Ala Trp Ala Gln Gly Thr Ala Met Val Gly Val Arg
 195 200 205

Glu Pro Leu Val Phe Arg Val Asp Ala Arg Gly Ser Val Asp Trp Ala
 210 215 220
 Ala Ser Gly Met Gly Ser Leu Glu Glu Glu Gly Thr Met Glu Glu Ala
 225 230 235 240
 Gly Glu Glu Glu Gly Glu Asp Gly Asp Ala Phe Val Thr Glu Glu Ser
 245 250 255
 Gln Asp Thr His Ser Leu Gly Asp Arg Asp Pro Lys Ile Leu Thr His
 260 265 270
 Asn Gly Arg Met Leu Thr Leu Ala Asp Leu Glu Asp Tyr Val Pro Gly
 275 280 285
 Glu Gly Glu Thr Phe His Cys Gly Gly Pro Gly Pro Gly Ala Pro Asp
 290 295 300
 Asp Pro Pro Cys Glu Val Ser Val Ile Gln Arg Glu Ile Gly Glu Pro
 305 310 315 320
 Thr Val Gly Ser Leu Cys Cys Ser Ala Trp Gly Met His Trp Val Pro
 325 330 335
 Glu Ala Leu Ser Ala Ser Leu Gly Leu Ser Pro Val Gly Arg His His
 340 345 350
 Arg Asp Pro Arg Ser Val Ala Leu Arg Ala Pro Pro Ser Ser Cys Gly
 355 360 365
 Arg Pro Arg Leu Gly Leu Trp Ala Val Leu Pro Gly Arg Ser Leu Ser
 370 375 380
 Ala Pro Ala Ser Gly Val Leu Arg Thr Val Ala Arg Ala Ala Ser Pro
 385 390 395 400
 Gln Ser Phe Pro Pro Arg Pro Ser Thr Ser Gly Gln Trp Gly Arg Arg
 405 410 415
 Ser Pro Phe Thr Ser Val Xaa Gly Xaa Gly Pro Ser Tyr Leu Thr Gln
 420 425 430
 Leu Gln Pro Gly Gly Leu Gly Gly Ala Cys Asn Val Gly Met Thr Gly
 435 440 445
 Ser Lys Thr Ser Ala Leu Gly Cys Phe Leu Ser Ala Trp En Glu Pro
 450 455 460
 Gln Asp Cys Gly Arg Arg Met Trp Pro Trp Ala Phe Val Leu Phe Pro
 465 470 475 480
 His Gly Pro Gly Pro Ser Leu Leu Ala Pro Ala Thr Ala Ala Arg Po
 485 490 495
 Asp Met Ala Leu Pro Leu Leu Gln Ser Trp
 500 505

<210> 1545
 <211> 334
 <212> PRT
 <213> Homo sapiens

<400> 1545
 Met Phe Gln Cys Gly Leu Leu Gln GlnLeu Cys Thr Ile Leu Met Ala
 1 5 10 15
 Thr Gly Val Pro Ala Asp Ile Leu Thr Glu Thr Ile Asn Thr Val Ser
 20 25 30
 Glu Val Ile Arg Gly Cys Gln Val Asn GlnAsp Tyr Phe Ala Ser Val
 35 40 45
 Asn Ala Pro Ser Asn Pro Pro Arg Pro Ala Ile Val Val Leu Leu Met
 50 55 60
 Ser Met Val Asn Glu Arg Gln Pro Phe Val Leu Arg Cys Ala ValLeu
 65 70 75 80
 Tyr Cys Phe Gln Cys Phe Leu Tyr Lys Asn Gln Lys Gly Gln Gly Glu
 85 90 95
 Ile Val Ser Thr Leu Leu Pro Ser Thr Ile Asp Ala Thr GlyAsn Ser
 100 105 110
 Val Ser Ala Gly Gln Leu Leu Cys Gly Gly Leu Phe Ser Thr Asp Ser
 115 120 125
 Leu Ser Asn Trp Cys Ala Ala Val Ala Leu Ala His Ala Leu Gln Glu
 130 135 140
 Asn Ala Thr Gln Lys Glu Gln Leu Leu Arg Val Gln Leu Ala Thr Ser
 145 150 155 160
 Ile Gly Asn Pro Pro Val Ser Leu Leu Gln Gln Cys Thr Asn Ile Leu
 165 170 175
 Ser Gln Gly Ser Lys Ile Gln Thr Arg Val Gly Leu Leu Met Leu Leu
 180 185 190
 Cys Thr Trp Leu Ser Asn Cys Pro Ile Ala Val Thr His Phe Leu His
 195 200 205
 Asn Ser Ala Asn Val Pro Phe Leu Thr Gly Gln Ile Ala Glu Asn Leu
 210 215 220
 Gly Glu Glu Glu Gln Leu Val Gln Gly Leu Cys Ala Leu Leu Leu Gly
 225 230 235 240
 Ile Ser Ile Tyr Phe Asn Asp Asn Ser Leu Glu Ser Tyr Met Lys Glu
 245 250 255

Lys Leu Lys Gln Leu Ile Glu Lys Arg Ile Gly Lys Glu Asn Phe Ile
 260 265 270
 Glu Lys Leu Gly Phe Ile Ser Lys His Glu Leu Tyr Ser Arg Ala Ser
 275 280 285
 Gln Lys Pro Gln Pro Asn Phe Pro Ser Pro Glu Tyr Met Ile Phe Asp
 290 295 300
 His Glu Phe Thr Lys Leu Val Lys Glu Leu Glu Gly Val Ile Thr Lys
 305 310 315 320
 Ala Ile Tyr Lys Ser Ser Glu Glu Asp Lys Lys Lys Lys Lys
 325 330

<210> 1546
 <211> 522
 <212> PRT
 <213> Homo sapiens

<400> 1546
 Met Arg Leu Arg Val Arg Leu Leu Lys Arg Thr Trp Pro Leu Glu Val
 1 5 10 15
 Pro Glu Thr Glu Pro Thr Leu Gly His Leu Arg Ser His Leu Arg Gln
 20 25 30
 Ser Leu Leu Cys Thr Trp Gly Tyr Ser Ser Asn Thr Arg Phe Thr Ile
 35 40 45
 Thr Leu Asn Tyr Lys Asp Pro Leu Thr Gly Asp Glu Glu Thr Leu Ala
 50 55 60
 Ser Tyr Gly Ile Val Ser Gly Asp Leu Ile Cys Leu Ile Leu Gln Asp
 65 70 75 80
 Asp Ile Pro Ala Pro Asn Ile Pro Ser Ser Thr Asp Ser Glu His Ser
 85 90 95
 Ser Leu Gln Asn Asn Glu Gln Pro Ser Leu Ala Thr Ser Ser Asn Gln
 100 105 110
 Thr Ser Met Gln Asp Glu Gln Pro Ser Asp Ser Phe Gln Gly Gln Ala
 115 120 125
 Ala Gln Ser Gly Val Trp Asn Asp Asp Ser Met Leu Gly Pro Ser Gln
 130 135 140
 Asn Phe Glu Ala Glu Ser Ile Gln Asp Asn Ala His Met Ala Glu Gly
 145 150 155 160
 Thr Gly Phe Tyr Pro Ser Glu Pro Met Leu Cys Ser Glu Ser Val Glu
 165 170 175
 Gly Gln Val Pro His Ser Leu Glu Thr Leu Tyr Gln Ser Ala Asp Cys

180	185	190
Ser Asp Ala Asn Asp Ala Leu	Ile Val Leu Ile His	Leu Leu Met Leu
195	200	205
Glu Ser Gly Tyr Ile Pro Gln Gly Thr Glu Ala Lys Ala Leu Ser Met		
210	215	220
Pro Glu Lys Trp Lys Leu Ser Gly Val Tyr Lys Leu Gln Tyr Met His		
225	230	235
Pro Leu Cys Glu Gly Ser Ser Ala Thr Leu Thr Cys Val Pro Leu Gly		
	245	250
Asn Leu Ile Val Val Asn Ala Thr Leu Lys Ile Asn Asn Glu Ile Arg		
	260	265
Ser Val Lys Arg Leu Gln Leu Leu Pro Glu Ser Phe Ile Cys Lys Glu		
	275	280
Lys Leu Gly Glu Asn Val Ala Asn Ile Tyr Lys Asp Leu Gln Lys Leu		
	295	300
Ser Arg Leu Phe Lys Asp Gln Leu Val Tyr Pro Leu Leu Ala Phe Thr		
305	310	315
Arg Gln Ala Leu Asn Leu Pro Asp Val Phe Gly Leu Val Val Leu Pro		
	325	330
Leu Glu Leu Lys Leu Arg Ile Phe Arg Leu Leu Asp Val Arg Ser Val		
	340	345
Leu Ser Leu Ser Ala Val Cys Arg Asp Leu Phe Thr Ala Ser Asn Asp		
	355	360
Pro Leu Leu Trp Arg Phe Leu Tyr Leu Arg Asp Phe Arg Asp Asn Thr		
	375	380
Val Arg Val Gln Asp Thr Asp Trp Lys Glu Leu Tyr Arg Lys Arg His		
385	390	395
Ile Gln Arg Lys Glu Ser Pro Lys Gly Arg Phe Val Met Leu Leu Pro		
	405	410
Ser Ser Thr His Thr Ile Pro Phe Tyr Pro Asn Pro Leu His Pro Arg		
	420	425
Pro Phe Pro Ser Ser Arg Leu Pro Pro Gly Ile Ile Gly Gly Glu Tyr		
	435	440
Asp Gln Arg Pro Thr Leu Pro Tyr Val Gly Asp Pro Ile Ser Ser Leu		
	455	460
Ile Pro Gly Pro Gly Glu Thr Pro Ser Gln Phe Pro Pro Leu Arg Pro		
465	470	475
Arg Phe Asp Pro Val Gly Pro Leu Pro Gly Pro Asn Pro Ile Leu Pro		

<213> Homo sapiens

<400> 1548

```
Met Val Thr Phe Ile Thr Ala Thr Leu Trp Ile Ala Val Phe Ser Tyr
 1             5             10             15

Ile Met Val Trp Leu Val Thr Ile Ile Gly Tyr Thr Leu Gly Ile Po
          20             25             30

Asp Val Ile Met Gly Ile Thr Phe Leu Ala Ala Gly Gln Val Ser Arg
          35             40             45

Leu His Gly Gln Pro Asn Cys Gly Glu Thr Arg Pro Trp Gly His Gly
          50             55             60

Ser Leu Gln His His Arg Ser Asn Val Phe Asp Ile Leu Val Gly Leu
          65             70             75             80

Gly Val Pro Trp Gly Leu Gln Thr Met Val Val Asn Tyr Gly Ser Thr
          85             90             95

Val Lys Ile Asn Ser Arg Gly Leu Val Tyr Ser Val Val Leu Leu Leu
          100             105             110

Gly Ser Val Ala Leu Thr Val Leu Gly Ile His Leu Asn Lys Trp Arg
          115             120             125

Leu Asp Arg Lys Leu Gly Val Tyr Val Leu Val Leu Tyr Ala Ile Phe
          130             135             140

Leu Cys Phe Ser Ile Met Ile Glu Phe Asn Val Phe Thr Phe Val Asn
          145             150             155             160

Leu Pro Met Cys Arg Glu Asp Asp
          165
```

<210> 1549

<211> 48

<212> PRT

<213> Homo sapiens

<400> 1549

```
Met Met Lys Tyr Phe Phe Asp Val Val Val Phe Leu Thr Phe Phe Leu
 1             5             10             15

Val Phe Ser Leu Ser Ile Phe Leu Ser Asp Glu Glu Phe Pro Val Ser
          20             25             30

Arg Thr Gln Asn Ile Gly Leu Cys His Phe Asn Pro Ser Phe Ser Glu
          35             40             45
```

<210> 1550
 <211> 168
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (83)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1550
 Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly
 1 5 10 15
 Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly
 20 25 30
 Arg Ala Phe Leu Leu Arg Ser Arg Leu Leu His Pro Glu Ala His Val
 35 40 45
 Pro Pro Ala Ala Asp Arg Gly Ala Ser Leu Gln Cys Val Leu His Gln
 50 55 60
 Ala Ala Pro Lys Ser Arg Pro Arg Ser Pro Ala Ala Gly Ala Ala Leu
 65 70 75 80
 Leu His Xaa Pro Arg Arg Thr Gly Asp Glu Pro Cys Arg Glu Phe His
 85 90 95
 Gly Asn Gly Phe Pro Gly Pro Thr Gln Leu Thr Pro Gly Glu Cys Gly
 100 105 110
 Leu Pro Ala Pro Ser Ser Leu Leu Gln His Ala Ser Ala Pro Val Arg
 115 120 125
 Thr Gly Ser Glu Gly Gln Val Val Gly Cys Pro Arg Ala Arg Gly Glu
 130 135 140
 Thr Gly Glu Gly Leu Ser Leu Ala Phe Leu Ser Ser Leu Met Phe Thr
 145 150 155 160
 Ser Arg Asn Gly Leu Val Gly Cys
 165

<210> 1551
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 1551
 Met Asn Leu Ile Phe Arg Leu Pro Cys Ile Leu Leu Thr Cys Ile Tyr
 1 5 10 15
 Val Gln Gln Cys Val Cys Lys Tyr Ile Gly Thr Phe Leu Asn Arg Val

20 25 30
 Cys Ala Met Cys Lys Gly Leu Leu Thr Val Lys
 35 40

 <210> 1552
 <211> 212
 <212> PRT
 <213> Homo sapiens

 <400> 1552
 Met Lys Thr Leu Pro Ala Met Leu Gly Thr Gly Lys Leu Phe Trp Val
 1 5 10 15
 Phe Phe Leu Ile Pro Tyr Leu Asp Ile Trp Asn Ile His Gly Lys Glu
 20 25 30
 Ser Cys Asp Val Gln Leu Tyr Ile Lys Arg Gln Ser Glu His Ser Ile
 35 40 45
 Leu Ala Gly Asp Pro Phe Glu Leu Glu Cys Pro Val Lys Tyr Cys Ala
 50 55 60
 Asn Arg Pro His Val Thr Trp Cys Lys Leu Asn Gly Thr Thr Cys Val
 65 70 75 80
 Lys Leu Glu Asp Arg Gln Thr Ser Trp Lys Glu Glu Lys Asn Ile Ser
 85 90 95
 Phe Phe Ile Leu His Phe Glu Pro Val Leu Pro Asn Asp Asn Gly Ser
 100 105 110
 Tyr Arg Cys Ser Ala Asn Phe Gln Ser Asn Leu Ile Glu Ser His Ser
 115 120 125
 Thr Thr Leu Tyr Val Thr Gly Glu Phe Ser Thr Pro Arg Pro Ser Asp
 130 135 140
 Ile Phe Leu Ile Met Phe Pro Gly Arg Gly Gly Phe Ser Phe Ser Ser
 145 150 155 160
 Asp Tyr Val Arg Lys Pro Thr Pro Ile Ala His Leu Lys Ser Ala Thr
 165 170 175
 Pro His Arg Leu Leu Cys Ala Ser Val Tyr Ile Cys Val Cys Met Cys
 180 185 190
 Ala Phe Glu Val Ser Glu Ile Glu Glu Ser Arg Glu Ile Asp Ser Lys
 195 200 205
 Ser Tyr Cys Phe
 210

<210> 1553
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 1553
 Met Gly Pro Leu Trp Gly Ala Pro Leu Arg Ala Trp Ala Ala Gly Ser
 1 5 10 15
 Val Gly Cys Pro Cys Cys Leu Ser Cys Ah Ser Pro Ser Ser Ile Ser
 20 25 30
 Ser Ala Gly Asp Pro Leu Ala Ser Cys Ser Thr Cys Gly Ser Thr Trp
 35 40 45
 Glu Ile Pro Leu Thr Trp Met Thr Met Asp His Leu La Val Arg Tyr
 50 55 60
 Tyr Leu Ser Gln Ala Arg Trp Cys Thr Thr Gly
 65 70 75

<210> 1554
 <211> 187
 <212> PRT
 <213> Homo sapiens

<400> 1554
 Met Val Ala Ala Thr Val Ala Ala Ala Trp Leu Leu Leu Trp Ala Ala
 1 5 10 15
 Ala Cys Ala Gln Gln Glu Gln Asp Phe Tyr Asp Phe Lys Ala Val Asn
 20 25 30
 Ile Arg Gly Lys Leu Val Ser Leu Glu Lys Tyr Arg Gly Ser Val Ser
 35 40 45
 Leu Val Val Asn Val Ala Ser Glu Cys Gly Phe Thr Asp Gln His Tyr
 50 55 60
 Arg Ala Leu Gln Gln Leu Gln Arg Asp Leu Gly Pro His His Phe Asn
 65 70 75 80
 Val Leu Ala Phe Pro Cys Asn Gln Phe Gly Gln Gln Glu Pro Asp Ser
 85 90 95
 Asn Lys Glu Ile Glu Ser Phe Ala Arg Arg Thr Tyr Ser Val Ser Phe
 100 105 110
 Pro Met Phe Ser Lys Ile Ala Val Thr Gly Thr Gly Ala His Pro Ala
 115 120 125
 Phe Lys Tyr Leu Ala Gln Thr Ser Gly Lys Glu Pro Thr Trp An Phe
 130 135 140
 Trp Lys Tyr Leu Val Ala Pro Asp Gly Lys Val Val Gly Ala Trp Asp

145 150 155 160
 Pro Thr Val Ser Val Glu Glu Val Arg Pro Gln Ile Thr Ala Leu Val
 165 170 175
 Arg Lys Leu Ile Leu Leu Lys Arg Glu Asp Leu
 180 185

<210> 1555
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 1555
 Met Ser Gly Leu Ala Ala Ala HisVal Phe Arg Val Cys Leu Phe
 1 5 10 15
 Pro Leu Ser Trp Gly Ser Ser Lys Thr Thr Phe Ile His Gly Leu Ser
 20 25 30
 Ser Tyr Ile Ala Thr Pro Val Leu Asn SerIle Phe Ser Ser Trp Lys
 35 40 45
 Ser Arg Arg Lys Asp Thr Trp Thr Cys Leu Leu His Arg Leu Ser Ala
 50 55 60
 Phe Pro Ile Ser Arg Arg Arg Arg Asn Phe Ala Leu Phe Ser HisSer
 65 70 75 80
 Cys Val Cys Ile Arg Ser Ser Ser Asp Asp Val Gly Pro Thr Met Tyr
 85 90 95
 Ser Phe Ser Val Pro Cys Arg Val Lys
 100 105

<210> 1556
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 1556
 Met Gly Ser Phe Leu His Pro Gln Trp His Leu Leu Ile Thr Phe Cys
 1 5 10 15
 Ala Val Leu Gly Lys Gly Leu His SerAsp Pro Ser Arg Pro Phe Glu
 20 25 30
 His Gly Gly Ala Leu Gly Lys Val Pro Arg Gly Arg Ser Thr Leu Leu
 35 40 45
 Ser Lys Glu Val Leu Leu Thr Leu Pro Pro Cys LeuHis Val Ser Val
 50 55 60

Gly Arg Lys
65

<210> 1557
<211> 302
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (262)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (279)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (294)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (295)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1557
Met Leu Leu Leu Trp Lys Asn Phe Met Tyr Arg Arg Arg Gln Pro Val
1 5 10 15

Gln Leu Leu Val Glu Leu Leu Trp Pro Leu Phe Leu Phe Phe Ile Leu
20 25 30

Val Ala Val Arg His Ser His Pro Pro Leu Glu His His Glu Cys His
35 40 45

Phe Pro Asn Lys Pro Leu Pro Ser Ala Gly Thr Val Pro Trp Leu Gln
50 55 60

Gly Leu Ile Cys Asn Val Asn Asn Thr Cys Phe Pro Gln Leu Thr Pro
65 70 75 80

Gly Glu Glu Pro Gly Arg Leu Ser Asn Phe Asn Asp Ser Leu Val Ser
85 90 95

Arg Leu Leu Ala Asp Ala Arg Thr Val Leu Gly Gly Ala Ser Ala His
100 105 110

Arg Thr Leu Ala Gly Leu Gly Lys Leu Ile Ala Thr Leu Arg Ala Ala
115 120 125

Arg Ser Thr Ala Gln Pro Gln Pro Thr Lys Gln Ser Pro Leu Glu Pro
130 135 140

Pro Met Leu Asp Val Ala Glu Leu Leu Thr Ser Leu Leu Arg Thr Glu
 145 150 155 160
 Ser Leu Gly Leu Ala Leu Gly Gln Ala Gln Glu Pro Leu His Ser Leu
 165 170 175
 Leu Glu Ala Ala Glu Asp Leu Ala Gln Glu Leu Leu Ala Leu Arg Ser
 180 185 190
 Leu Val Glu Leu Arg Ala Leu Leu Gln Arg Pro Arg Gly Thr Ser Gly
 195 200 205
 Pro Leu Glu Leu Leu Ser Glu Ala Leu Cys Ser Val Arg Gly Pro Ser
 210 215 220
 Ser Thr Val Gly Pro Ser Leu Asn Trp Tyr Glu Ala Ser Asp Leu Met
 225 230 235 240
 Glu Leu Val Gly Gln Glu Pro Glu Ser Ala Cys Arg Gln Gln Leu Ser
 245 250 255
 Pro Leu Leu Gly Ala Xaa Trp Ser Leu Asp Ser Thr Arg Cys Pro Leu
 260 265 270
 Val Trp Asn Ala Glu Ala Xaa Ser Ser Glu Val Leu Leu Thr Asp His
 275 280 285
 Phe Thr Glu Val Met Xaa Xaa Glu Arg Leu Gln Ser Tyr Leu
 290 295 300

<210> 1558
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 1558
 Met Leu Leu Trp Trp Gln Cys Leu Cys Cys His Ala Val Leu Glu Pro
 1 5 10 15
 Ala Ala Thr Ala Met Pro Glu Asp Ala Ala Pro Ser Ser Leu Pro Val
 20 25 30
 Pro Pro Asn Met Thr Ser Ser Arg Phe His Tyr Phe Trp Thr Leu Leu
 35 40 45
 Gln Ile Lys Leu Thr Gln Phe Tyr Ser Lys Pro Arg Ser Leu Ser Ala
 50 55 60
 Thr Pro Glu Lys Asn Ile Gly Leu Gln Glu Pro Glu Arg Arg Glu Arg
 65 70 75 80
 Phe Thr Gly Glu Ser Cys Arg Trp Glu Leu Lys Ser Gln Val Met Ser
 85 90 95

Leu Pro His Gln Lys Leu Thr Arg Met Tyr Thr Met Pro Leu
 100 105 110

<210> 1559
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 1559
 Met Arg Arg Gln Thr Phe Met Ser Ile Leu Val Phe Gln Cys Ser Pro
 1 5 10 15
 Ile Ser Phe Gly Leu Cys Ile Asn Lys Glu Arg Thr Val Val Ser Ser
 20 25 30
 Val Ile Thr Asp Asn Leu Cys Leu
 35 40

<210> 1560
 <211> 211
 <212> PRT
 <213> Homo sapiens

<400> 1560
 Met Tyr Ala Ser Val Leu Leu Thr Gly Leu Leu Ser Leu Gln Arg Asn
 1 5 10 15
 Leu Ala Val Thr Arg Pro Ser Trp Arg Leu Gly Cys Ala Ala Arg Pro
 20 25 30
 Gly Pro Pro Leu Leu Leu Ala Val Trp Leu Ala Ala Leu Leu Leu Ala
 35 40 45
 Val Pro Ala Ala Val Tyr Arg His Leu Trp Arg Asp Arg Val Cys Gln
 50 55 60
 Leu Cys His Pro Ser Pro Val His Ala Ala Ala His Leu Ser Leu Glu
 65 70 75 80
 Thr Leu Thr Ala Phe Val Leu Pro Phe Gly Leu Met Leu Gly Cys Tyr
 85 90 95
 Ser Val Thr Leu Ala Arg Leu Arg Gly Ala Arg Trp Gly Ser Gly Arg
 100 105 110
 His Gly Ala Arg Val Gly Arg Leu Val Ser Ala Ile Val Leu Pro Ser
 115 120 125
 Ala Cys Ser Gly Pro Pro Thr Thr Gln Ser Thr Phe Cys Arg Arg Ser
 130 135 140
 Gln Arg Trp Leu His Arg Lys Gly Pro Trp Arg Ser Trp Ala Glu Pro
 145 150 155 160

Ala Arg Arg Arg Glu Arg Glu Leu Arg Pro Trp Pro Ser Ser Val Leu
165 170 175

Ala Ser Thr Arg Cys Ser Thr Ser Ser Pro Leu Glu Ile Cys Cys Pro
180 185 190

Gly Gln Val Pro Val Ser Ser Arg Gly Ser Ser Lys Ala Leu Gly Arg
195 200 205

Pro Glu Gly
210

<210> 1561
<211> 90
<212> PRT
<213> Homo sapiens

<400> 1561
Met Tyr Leu Leu Cys Trp Leu Tyr Ile Met Gly Val Leu Gly Ala Ser
1 5 10 15

Cys Asn Trp His Val Gly Val Pro Phe Pro Gly Thr His Trp Pro Arg
20 25 30

Ser Gln Asn His Leu Leu Trp Val Tyr Asn His Leu Asn Glu Leu Pro
35 40 45

Val Pro Ala Gly Arg Ser Ser Gln Leu Tyr Leu Gly Tyr Thr Glu
50 55 60

Lys Leu Cys Ile Trp Ile Ser Cys Tyr Leu Ala Ile Arg Ile Thr Glu
65 70 75 80

Ile Gln Gly Ser Arg Val Ile Leu Met Aa
85 90

<210> 1562
<211> 414
<212> PRT
<213> Homo sapiens

<400> 1562
Met Asn Pro Thr Leu Gly Leu Ala Ile Phe Leu Ala Val Leu Leu Thr
1 5 10 15

Val Lys Gly Leu Leu Lys Pro Ser Phe Ser Pro Arg Asn Tyr Lys Ala
20 25 30

Leu Ser Glu Val Gln Gly Trp Lys Gln Arg Met Ala Ala Lys Glu Leu
35 40 45

Ala Arg Gln Asn Met Asp Leu Gly Phe Lys Leu Leu Lys Lys Leu Ala

50					55					60					
Phe	Tyr	Asn	Pro	Gly	Arg	Asn	Ile	Phe	Leu	Ser	Pro	Leu	Ser	Ile	Ser
65					70					75					80
Thr	Ala	Phe	Ser	Met	Leu	Cys	Leu	Gly	Ala	Gln	Asp	Ser	Thr	Leu	Asp
				85					90					95	
Glu	Ile	Lys	Gln	Gly	Phe	Asn	Phe	Arg	Lys	Met	Pro	Glu	Lys	Asp	Leu
			100					105					110		
His	Glu	Gly	Phe	His	Tyr	Ile	Ile	His	Glu	Leu	Thr	Gln	Lys	Thr	Gln
		115					120					125			
Asp	Leu	Lys	Leu	Ser	Ile	Gly	Asn	Thr	Leu	Phe	Ile	Asp	Gln	Arg	Leu
	130					135					140				
Gln	Pro	Gln	Arg	Lys	Phe	Leu	Glu	Asp	Ala	Lys	Asn	Phe	Tyr	Ser	Ala
145					150					155					160
Glu	Thr	Ile	Leu	Thr	Asn	Phe	Gln	Asn	Leu	Glu	Met	Ala	Gln	Lys	Gln
				165					170					175	
Ile	Asn	Asp	Phe	Ile	Ser	Gln	Lys	Thr	His	Gly	Lys	Ile	Asn	Asn	Leu
			180					185					190		
Ile	Glu	Asn	Ile	Asp	Pro	Gly	Thr	Val	Met	Leu	Leu	Ala	Asn	Tyr	Ile
		195					200					205			
Phe	Phe	Arg	Ala	Arg	Trp	Lys	His	Glu	Phe	Asp	Pro	Asn	Val	Thr	Lys
	210					215					220				
Glu	Glu	Asp	Phe	Phe	Leu	Glu	Lys	Asn	Ser	Ser	Val	Lys	Val	Pro	Met
225					230					235					240
Met	Phe	Arg	Ser	Gly	Ile	Tyr	Gln	Val	Gly	Tyr	Asp	Asp	Lys	Leu	Ser
				245					250					255	
Cys	Thr	Ile	Leu	Glu	Ile	Pro	Tyr	Gln	Lys	Asn	Ile	Thr	Ala	Ile	Phe
			260					265					270		
Ile	Leu	Pro	Asp	Glu	Gly	Lys	Leu	Lys	His	Leu	Glu	Lys	Gly	Leu	Gln
		275					280					285			
Val	Asp	Thr	Phe	Ser	Arg	Trp	Lys	Thr	Leu	Leu	Ser	Arg	Arg	Val	Val
	290					295					300				
Asp	Val	Ser	Val	Pro	Arg	Leu	His	Met	Thr	Gly	Thr	Phe	Asp	Leu	Lys
305					310					315					320
Lys	Thr	Leu	Ser	Tyr	Ile	Gly	Val	Ser	Lys	Ile	Phe	Glu	Glu	His	Gly
				325					330					335	
Asp	Leu	Thr	Lys	Ile	Ala	Pro	His	Arg	Ser	Leu	Lys	Val	Gly	Glu	Ala
			340					345					350		
Val	His	Lys	Ala	Glu	Leu	Lys	Met	Asp	Glu	Arg	Gly	Thr	Glu	Gly	Ala

355		360		365
Ala Gly Thr Gly Ala Gln Thr Leu Pro Met Glu Thr Pro Leu Val Val				
370		375		380
Lys Ile Asp Lys Pro Tyr Leu Leu Leu Ile Tyr Ser Glu Lys Ile Pro				
385		390		395
				400
Ser Val Leu Phe Leu Gly Lys Ile Val Asn Pro Ile Gly Lys				
	405		410	

<210> 1563
 <211> 346
 <212> PRT
 <213> Homo sapiens

<400> 1563
Met Asp Pro Ala Arg Lys Ala Gly Ala Gln Ala Met Ile Trp Thr Ala
1 5 10 15
Gly Trp Leu Leu Leu Leu Leu Leu Arg Gly Gly Ala Gln Ala Leu Glu
20 25 30
Cys Tyr Ser Cys Val Gln Lys Ala Asp Asp Gly Cys Ser Pro Asn Lys
35 40 45
Met Lys Thr Val Lys Cys Ala Pro Gly Val Asp Val Cys Thr Glu Ala
50 55 60
Val Gly Ala Val Glu Thr Ile His Gly Gln Phe Ser Leu Ala Val Arg
65 70 75 80
Gly Cys Gly Ser Gly Leu Pro Gly Lys Asn Asp Arg Gly Leu Asp Leu
85 90 95
His Gly Leu Leu Ala Phe Ile Gln Leu Gln Gln Cys Ala Gln Asp Arg
100 105 110
Cys Asn Ala Lys Leu Asn Leu Thr Ser Arg Ala Leu Asp Pro Ala Gly
115 120 125
Asn Glu Ser Ala Tyr Pro Pro Asn Gly Val Glu Cys Tyr Ser Cys Val
130 135 140
Gly Leu Ser Arg Glu Ala Cys Gln Gly Thr Ser Pro Pro Val Val Ser
145 150 155 160
Cys Tyr Asn Ala Ser Asp His Val Tyr Lys Gly Cys Phe Asp Gly Asn
165 170 175
Val Thr Leu Thr Ala Ala Asn Val Thr Val Ser Leu Pro Val Arg Gly
180 185 190
Cys Val Gln Asp Glu Phe Cys Thr Arg Asp Gly Val Thr Gly Pro Gly
195 200 205

Phe Thr Leu Ser Gly Ser Cys Cys Gln Gly Ser Arg Cys Asn Ser Asp
 210 215 220
 Leu Arg Asn Lys Thr Tyr Phe Ser Pro Arg Ile Pro Pro Leu Val Arg
 225 230 235 240
 Leu Pro Pro Pro Glu Pro Thr Thr Val Ala Ser Thr Thr Ser Val Thr
 245 250 25
 Thr Ser Thr Ser Ala Pro Val Arg Pro Thr Ser Thr Thr Lys Pro Met
 260 265 270
 Pro Ala Pro Thr Ser Gln Thr Pro Arg Gln Gly Val Glu His Glu Ala
 275 280 285
 Ser Arg Asp Glu Glu Pro Arg Leu Thr Gly Gly Ala Ala Gly His Gln
 290 295 300
 Asp Arg Ser Asn Ser Gly Gln Tyr Pro Ala Lys Gly Gly Pro Gln Gln
 305 310 315 320
 Pro His Asn Lys Gly Cys Val Ala Pro Thr Ala Gly Leu Ala Ala Leu
 325 330 335
 Leu Leu Ala Val Ala Ala Gly Val Leu Leu
 340 345

<210> 1564
 <211> 188
 <212> PRT
 <213> Homo sapiens

<400> 1564
 Met Asp Val Asn Ile Ala Pro Leu Arg Ala Trp Asp Asp Phe Phe Pro
 1 5 10 15
 Gly Ser Asp Arg Phe Ala Arg Pro Asp Phe Arg Asp Ile Ser Lys Trp
 20 25 30
 Asn Asn Arg Val Val Ser Asn Leu Leu Tyr Tyr Gln Thr Asn Tyr Leu
 35 40 45
 Val Val Ala Ala Met Met Ile Ser Ile Val Gly Phe Leu Ser Pro Phe
 50 55 60
 Asn Met Ile Leu Gly Gly Ile Val Val Val Leu Val Phe Thr Gly Phe
 65 70 75 80
 Val Trp Ala Ala His Asn Lys Asp Val Leu Arg Arg Met Lys Lys Arg
 85 90 95
 Tyr Pro Thr Thr Phe Val Met Val Val Met Leu Ala Ser Tyr Phe Leu
 100 105 110

Ile Ser Met Phe Gly Gly Val Met Val Phe Val Phe Gly Ile Thr Phe
115 120 125

Pro Leu Leu Leu Met Phe Ile His Ala Ser Leu Arg Leu Arg Asn Leu
130 135 140

Lys Asn Lys Leu Glu Asn Lys Met Glu Gly Ile Gly Leu Lys Arg Thr
145 150 155 160

Pro Met Gly Ile Val Leu Asp Ala Leu Glu Gln Gln Glu Glu Gly Ile
165 170 175

Asn Arg Leu Thr Asp Tyr Ile Ser Lys Val Lys Glu
180 185

<210> 1565
<211> 45
<212> PRT
<213> Homo sapiens

<400> 1565
Met Ser Met Lys Cys Tyr Leu Val Val Leu Ile Cys Ile Pro Leu Met
1 5 10 15

Ala Thr Asp Ala Glu Cys Leu Phe Leu Cys Leu Arg Ala Met Arg Ile
20 25 30

Ser Leu Glu Lys Gly Leu Ser Arg Ser Phe Ala Tyr Phe
35 40 45

<210> 1566
<211> 165
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring amino acids

<400> 1566
Met Cys Leu Ser Leu Leu Ala Ala Leu Ala Cys Ser Ala Gly Asp Thr
1 5 10 15

Trp Ala Ser Glu Val Gly Pro Val Leu Ser Lys Ser Ser Pro Arg Leu
20 25 30

Ile Thr Thr Trp Glu Lys Val Pro Val Gly Thr Asn Gly Gly Val Thr
35 40 45

Val Val Gly Leu Val Ser Ser Leu Leu Gly Gly Thr Phe Val Gly Ile
50 55 60

Ala Tyr Phe Leu Thr Gln Leu Ile Phe Val Asn Asp Leu Asp Ile Ser
 65 70 75 80
 Ala Pro Gln Trp Pro Ile Ile Ala Phe Gly Gly Leu Ala Gly Leu Leu
 85 90 95
 Gly Ser Ile Val Asp Ser Tyr Leu Gly Ala Thr Met Gln Tyr Thr Gly
 100 105 110
 Leu Asp Glu Ser Thr Gly Met Val Val Asn Ser Pro Thr Asn Xaa Ala
 115 120 125
 Arg His Ile Ala Gly Lys Pro Ile Leu Asp Asn Asn Ala Val Asn Leu
 130 135 140
 Phe Ser Ser Val Leu Ile Ala Leu Leu Leu Pro Thr Ala Ala Trp Gly
 145 150 155 160
 Phe Trp Pro Arg Gly
 165

<210> 1567
 <211> 155
 <212> PRT
 <213> Homo sapiens

<400> 1567
 Met Trp Pro Gln Glu Ala Trp Val Cys Ile Leu Val Leu Leu Gly Thr
 1 5 10 15
 Arg Val Gly Leu Cys Val Gly Asp Ser Leu Ala Pro Gln Ala Ser Leu
 20 25 30
 Ser Tyr Cys Tyr Ile Leu Lys Val Pro Leu Arg Pro Lys Pro Leu Trp
 35 40 45
 Gln Leu Ser Asn Glu Ser Ile Cys Ser Glu Tyr Arg Val Glu Gly Gly
 50 55 60
 Gln Gly His Gln Glu Leu Arg Met Phe Leu Arg Leu Met Arg Pro Arg
 65 70 75 80
 Tyr Trp Val His Gly Gly Pro Arg Ser Leu Cys Asp Ser Cys Ser Leu
 85 90 95
 Leu Pro Pro Cys Leu Asp Pro Ala Ser Ala Gln Lys Ala Asn Ser Leu
 100 105 110
 Asp Ser Lys Gly Leu Pro Arg Pro Ile Ser Met Ser Cys Ser Cys Gln
 115 120 125
 Leu Pro Val Pro Ser Leu Asp Leu Ser Ser Cys Leu Ala Pro Ser Leu
 130 135 140
 Pro Thr Pro His Ile Phe Thr Asn Lys Arg Lys

145

150

155

<210> 1568

<211> 62

<212> PRT

<213> Homo sapiens

<400> 1568

Met Thr Trp Thr Lys Cys Pro Leu Pro Leu Gly Pro Ala Phe Phe Thr
 1 5 10 15

Gln Cys Cys Leu Ile Gly Leu Leu Val ProLeu Leu Gly Trp Gly Asn
 20 25 30

Gln Asn Thr Gln Trp Tyr Pro Thr Ser Lys Met Pro Asp Leu Lys Asp
 35 40 45

Ser Lys Thr Thr Asp Leu Cys Gln His Val Lys His MetVal
 50 55 60

<210> 1569

<211> 615

<212> PRT

<213> Homo sapiens

<400> 1569

Met Ile Leu Phe Leu Leu Ala Phe Leu Leu Phe Cys Gly Leu Leu Phe
 1 5 10 15

Tyr Ile Asn Leu Ala Asp His Trp Lys Ala Leu Ala Phe Arg Leu Glu
 20 25 30

Glu Glu Gln Lys Met Arg Pro Glu Ile Ala Gly Leu Lys Pro Ala Asn
 35 40 45

Pro Pro Val Leu Pro Ala Pro Gln Lys Ala Asp Thr Asp Pro Glu Asn
 50 55 60

Leu Pro Glu Ile Ser Ser Gln Lys Thr Gln Arg His Ile Gln Arg Gly
 65 70 75 80

Pro Pro His Leu Gln Ile Arg Pro Pro Ser Gln Asp Leu Lys Asp Gly
 85 90 95

Thr Gln Glu Glu Ala Thr Lys Arg Gln Glu Ala Pro Val Asp Pro Arg
 100 105 110

Pro Glu Gly Asp Pro Gln Arg Thr Val Ile Ser Trp Arg Gly Ala Val
 115 120 125

Ile Glu Pro Glu Gln Gly Thr Glu Leu Pro Ser Arg Arg Ala Glu Val
 130 135 140

Pro Thr Lys Pro Pro Leu Pro Pro Ala Arg Thr Gln Gly Thr Pro Val
 145 150 155 160
 His Leu Asn Tyr Arg Gln Lys Gly Val Ile Asp Val Phe Leu His Ala
 165 170 175
 Trp Lys Gly Tyr Arg Lys Phe Ala Trp Gly His Asp Glu Leu Lys Pro
 180 185 190
 Val Ser Arg Ser Phe Ser Glu Trp Phe Gly Leu Gly Leu Thr Leu Ile
 195 200 205
 Asp Ala Leu Asp Thr Met Trp Ile Leu Gly Leu Arg Lys Glu Phe Glu
 210 215 220
 Glu Ala Arg Lys Trp Val Ser Lys Lys Leu His Phe Glu Lys Asp Val
 225 230 235 240
 Asp Val Asn Leu Phe Glu Ser Thr Ile Arg Ile Leu Gly Gly Leu Leu
 245 250 255
 Ser Ala Tyr His Leu Ser Gly Asp Ser Leu Phe Leu Arg Lys Ala Glu
 260 265 270
 Asp Phe Gly Asn Arg Leu Met Pro Ala Phe Arg Thr Pro Ser Lys Id
 275 280 285
 Pro Tyr Ser Asp Val Asn Ile Gly Thr Gly Val Ala His Pro Pro Arg
 290 295 300
 Trp Thr Ser Asp Ser Thr Val Ala Glu Val Thr Ser Ile Gln Leu Glu
 305 310 315 320
 Phe Arg Glu Leu Ser Arg Leu Thr Gly Asp Lys Lys Phe Gln Glu Ala
 325 330 335
 Val Glu Lys Val Thr Gln His Ile His Gly Leu Ser Gly Lys Lys Asp
 340 345 350
 Gly Leu Val Pro Met Phe Ile Asn Thr His Ser Gly Leu Phe Thr His
 355 360 365
 Leu Gly Val Phe Thr Leu Gly Ala Arg Ala Asp Ser Tyr Tyr Glu Tyr
 370 375 380
 Leu Leu Lys Gln Trp Ile Gln Gly Gly Lys Gln Glu Thr Gln Leu Leu
 385 390 395 400
 Glu Asp Tyr Val Glu Ala Ile Glu Gly Val Arg Thr His Leu Leu Arg
 405 410 415
 His Ser Glu Pro Ser Lys Leu Thr Phe Val Gly Glu Leu Ala His Gly
 420 425 430
 Arg Phe Ser Ala Lys Met Asp His Leu Val Cys Phe Leu Pro Gly Thr
 435 440 445

Leu Ala Leu Gly Val Tyr His Gly Leu Pro Ala Ser His Met Glu Leu
 450 455 460
 Ala Gln Glu Leu Met Glu Thr Cys Tyr Gln Met Asn Arg Gln Met Glu
 465 470 475 480
 Thr Gly Leu Ser Pro Glu Ile Val His Phe Asn Leu Tyr Pro Gln Pro
 485 490 495
 Gly Arg Arg Asp Val Glu Val Lys Pro Ala Asp Arg His Asn Leu Leu
 500 505 510
 Arg Pro Glu Thr Val Glu Ser Leu Phe Tyr Leu Tyr Arg Val Thr Gly
 515 520 525
 Asp Arg Lys Tyr Gln Asp Trp Gly Trp Glu Ile Leu Gln Ser Phe Ser
 530 535 540
 Arg Phe Thr Arg Val Pro Ser Gly Gly Tyr Ser Ser Ile Asn Asn Val
 545 550 555 560
 Gln Asp Pro Gln Lys Pro Glu Pro Arg Asp Lys Met Glu Ser Phe Phe
 565 570 575
 Leu Gly Glu Thr Leu Lys Tyr Leu Phe Leu Leu Phe Ser Asp Asp Pro
 580 585 590
 Asn Leu Leu Ser Leu Asp Ala Tyr Val Phe Asn Thr Glu Ala His Pro
 595 600 605
 Leu Pro Ile Trp Thr Pro Ala
 610 615

<210> 1570
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1570
 Met Thr Lys Ala Arg Leu Phe Arg Leu Trp Leu Val Leu Gly Ser Val
 1 5 10 15
 Phe Met Ile Leu Leu Ile Ile Val Tyr Trp Asp Ser Ala Ala Pro Arg
 20 25 30
 Thr Ser Thr Cys Thr Arg Pro Ser Leu Gly Arg Thr Arg Gly Arg Arg
 35 40 45
 Cys Pro Arg Pro Gly Arg Thr Gly Gln Gly Ala His Gly Arg Leu Arg
 50 55 60
 Cys Arg Arg Val Ser Gly Gln Phe Leu Met Leu Ala
 65 70 75

<210> 1571
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1571
 Met Gly Ser Ala Ala Leu Glu Ile Leu Gly Leu Val Leu Cys Leu Val
 1 5 10 15
 Gly Trp Gly Gly Leu Ile Leu Ala Cys Gly Leu Pro Met Trp Gln Val
 20 25 30
 Thr Ala Phe Leu Asp His Asn Ile Val Thr Ala Gln Thr Thr Trp Lys
 35 40 45
 Gly Leu Trp Met Ser Cys Val Val Gln Ser Thr Gly Thr Cys Ser Ala
 50 55 60
 Lys Cys Thr Thr Arg Cys Trp Leu
 65 70

<210> 1572
 <211> 91
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (49)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1572
 Met Val Leu Arg Gly Trp Gly Leu Ala Trp Ser Xaa Ser Pro Val Val
 1 5 10 15
 Cys Gly Tyr Ser Gly Asp Met Lys Gly Val Cys Trp Gly Arg Ser Asp
 20 25 30
 His Ser Leu Leu Pro Ser Glu Ile Leu Leu Pro Pro Ala Pro Cys Pro
 35 40 45
 Xaa Ser Xaa Val Leu His Asn Pro Pro Pro Thr Pro His Leu Pro Ser
 50 55 60

Pro Val Leu Val Arg Ile Gln Glu Ala Pro Thr Trp Ala Gln Arg Ser
 65 70 75 80

Ser Leu Gly Ala Ser Pro Leu His Lys Gly Asp
 85 90

<210> 1573
 <211> 4
 <212> PRT
 <213> Homo sapiens

<400> 1573
 Leu Arg Glu Leu
 1

<210> 1574
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 1574
 Gly Cys Ser Leu Tyr Asn Ser Phe Asn Asn Leu Leu Cys Leu
 1 5 10

<210> 1575
 <211> 6
 <212> PRT
 <213> Homo sapiens

<400> 1575
 Trp Ala Leu Pro Met Ser
 1 5

<210> 1576
 <211> 45
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (28)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1576
 Met Lys Lys Ser Leu Glu Asn Leu Asn Arg Leu Gln Val Met Leu Leu
 1 5 10 15

His Leu Thr Ala Ala Phe Leu Gln Arg Ala His Xaa Ile Leu Thr Thr
 20 25 30

Arg Met Ser Leu Gly Phe Gln Ser Pro His Leu Thr Met
 35 40 45

<210> 1577
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 1577
 Pro Gly Pro His Cys Phe Ile Gly Leu Ala Met Arg Leu Tyr Tyr Gly
 1 5 10 15

Ser Arg

<210> 1578
 <211> 98
 <212> PRT
 <213> Homo sapiens

<400> 1578
 Met Val His Ile Asn Arg Ala Leu Lys Leu Ile Ile Arg Leu Phe Leu
 1 5 10 15

Val Glu Asp Leu Val Asp Ser Leu Lys Leu Ala Val Phe Met Trp Leu
 20 25 30

Met Thr Tyr Val Gly Ala Val Phe Asn Gly Ile Thr Leu Leu Ile Leu
 35 40 45

Ala Glu Leu Leu Ile Phe Ser Val Pro Ile Val Tyr Glu Lys Tyr Lys
 50 55 60

Thr Gln Ile Asp His Tyr Val Gly Ile Ala Arg Asp Gln Thr Lys Ser
 65 70 75 80

Ile Val Glu Lys Ile Gln Ala Lys Leu Pro Gly Ile Ala Lys Lys Lys
 85 90 95

Ala Glu

<210> 1579
 <211> 392
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (251)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1579

Met	Ala	Pro	Trp	Pro	Pro	Lys	Gly	Leu	Val	Pro	Ala	Val	Leu	Trp	Gly	
1				5					10					15		
Leu	Ser	Leu	Phe	Leu	Asn	Leu	Pro	Gly	Pro	Ile	Trp	Leu	Gln	Pro	Ser	
			20					25					30			
Pro	Pro	Pro	Gln	Ser	Ser	Pro	Pro	Pro	Gln	Pro	His	Pro	Cys	His	Thr	
		35					40					45				
Cys	Arg	Gly	Leu	Val	Asp	Ser	Phe	Asn	Lys	Gly	Leu	Glu	Arg	Thr	Ile	
	50					55					60					
Arg	Asp	Asn	Phe	Gly	Gly	Gly	Asn	Thr	Ala	Trp	Glu	Glu	Glu	Asn	Leu	
65					70					75					80	
Ser	Lys	Tyr	Lys	Asp	Ser	Glu	Thr	Arg	Leu	Val	Glu	Val	Leu	Glu	Gly	
				85					90						95	
Val	Cys	Ser	Lys	Ser	Asp	Phe	Glu	Cys	His	Arg	Leu	Leu	Glu	Leu	Ser	
			100					105					110			
Glu	Glu	Leu	Val	Glu	Ser	Trp	Trp	Phe	His	Lys	Gln	Gln	Glu	Ala	Pro	
		115					120					125				
Asp	Leu	Phe	Gln	Trp	Leu	Cys	Ser	Asp	Ser	Leu	Lys	Leu	Cys	Cys	Pro	
	130					135					140					
Ala	Gly	Thr	Phe	Gly	Pro	Ser	Cys	Leu	Pro	Cys	Pro	Gly	Gly	Thr	Glu	
145					150					155					160	
Arg	Pro	Cys	Gly	Gly	Tyr	Gly	Gln	Cys	Glu	Gly	Glu	Gly	Thr	Arg	Gly	
				165					170					175		
Gly	Ser	Gly	His	Cys	Asp	Cys	Gln	Ala	Gly	Tyr	Gly	Gly	Glu	Ala	Cys	
			180					185					190			
Gly	Gln	Cys	Gly	Leu	Gly	Tyr	Phe	Glu	Ala	Glu	Arg	Asn	Ala	Ser	His	
		195					200					205				
Leu	Val	Cys	Ser	Ala	Cys	Phe	Gly	Pro	Cys	Ala	Arg	Cys	Ser	Gly	Pro	
	210					215					220					
Glu	Glu	Ser	Asn	Cys	Leu	Gln	Cys	Lys	Lys	Gly	Trp	Ala	Leu	His	His	
225					230					235					240	
Leu	Lys	Cys	Val	Asp	Cys	Ala	Lys	Ala	Cys	Xaa	Gly	Cys	Met	Gly	Ala	
				245					250					255		
Gly	Pro	Gly	Arg	Cys	Lys	Lys	Cys	Ser	Pro	Gly	Tyr	Gln	Gln	Val	Gly	
			260					265					270			
Ser	Lys	Cys	Leu	Asp	Val	Asp	Glu	Cys	Glu	Thr	Glu	Val	Cys	Pro	Gly	
		275					280					285				

Glu Asn Lys Gln Cys Glu Asn Thr Glu Gly Gly Tyr Arg Cys Ile Cys
 290 295 300
 Ala Glu Gly Tyr Lys Gln Met Glu Gly Ile Cys Val LysGlu Gln Ile
 305 310 315 320
 Pro Glu Ser Ala Gly Phe Phe Ser Glu Met Thr Glu Asp Glu Leu Val
 325 330 335
 Val Leu Gln Gln Met Phe Phe Gly Ile Ile Ile CysAla Leu Ala Thr
 340 345 350
 Leu Ala Ala Lys Gly Asp Leu Val Phe Thr Ala Ile Phe Ile Gly Ala
 355 360 365
 Val Ala Ala Met Thr Gly Tyr Trp Leu Ser Glu Arg Ser Asp ArgVal
 370 375 380
 Leu Glu Gly Phe Ile Lys Gly Arg
 385 390

<210> 1580
 <211> 434
 <212> PRT
 <213> Homo sapiens

<400> 1580
 Met Ala Pro Glu Gly Leu Val Pro Ala Val Leu Trp Gly Leu Ser Leu
 1 5 10 15
 Phe Leu Asn Leu Pro Gly Pro Ile Trp Leu Gln Pro Ser Pro Pro Pro
 20 25 30
 Gln Ser Ser Pro Pro Pro Gln Pro His Pro Cys His Thr Cys Arg Gly
 35 40 45
 Leu Val Asp Ser Phe Asn Lys Gly Leu Glu Arg Thr Ile Arg Asp Asn
 50 55 60
 Phe Gly Gly Gly Asn Thr Ala Trp Glu Glu Glu Asn Leu Ser Lys Tyr
 65 70 75 80
 Lys Asp Ser Glu Thr Arg Leu Val Glu Val Leu Glu Gly Val Cys Ser
 85 90 95
 Lys Ser Asp Phe Glu Cys His Arg Leu Leu Glu Leu Ser Glu Glu Leu
 100 105 110
 Val Glu Ser Trp Trp Phe His Lys Gln Gln Glu Ala Pro Asp Leu Phe
 115 120 125
 Gln Trp Leu Cys Ser Asp Ser Leu Lys Leu Cys Cys Pro Ala Gly Thr
 130 135 140
 Phe Gly Pro Ser Cys Leu Pro Cys Pro Gly Gly Thr Glu Arg Pro Cys

<210> 1581
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 1581
 Met Leu Arg Cys Gly Gly Arg Gly Leu Leu Leu Gly Leu Ala Val Ala
 1 5 10 15
 Ala Ala Ala Val Met Ala Ala Arg Leu Met Gly Trp Trp Gly Pro Arg
 20 25 30
 Ala Gly Phe Arg Leu Phe Ile Pro Glu Glu Leu Ser Arg Tyr Arg Gly
 35 40 45
 Gly Pro Gly Asp Pro Gly Leu Tyr Leu Ala Leu Leu Gly Arg Val Tyr
 50 55 60
 Asp Val Ser Ser Gly Arg Ser Thr Thr Ser Leu Gly Pro Thr Ile Ala
 65 70 75 80
 Ala Ser Gln Ala Glu Thr His Pro Glu Leu Ser
 85 90

<210> 1582
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 1582
 Met Val Leu Leu Cys Leu Leu Leu Val Pro Leu Leu Leu Ser Leu Phe
 1 5 10 15
 Val Leu Gly Leu Phe Leu Trp Phe Leu Lys Arg Glu Arg Gln Glu Glu
 20 25 30
 Tyr Ile Glu Glu Lys Lys Arg Val Asp Ile Cys Arg Glu Thr Pro Asn
 35 40 45
 Ile Cys Pro His Ser Gly Glu Asn Thr Glu Tyr Asp Thr Ile Pro His
 50 55 60
 Thr Asn Arg Thr Ile Leu Lys Glu Asp Pro Ala Asn Thr Val Tyr Ser
 65 70 75 80
 Thr Val Glu Ile Pro Lys Lys Met Glu Asn Pro His Ser Leu Leu Thr
 85 90 95
 Met Pro Asp Thr Pro Arg Leu Phe Ala Tyr Glu Asn Val Ile
 100 105 110

<210> 1583

<211> 189
 <212> PRT
 <213> Homo sapiens

<400> 1583

```

Met Gly Pro Val Arg Leu Gly Ile Leu Leu Phe Leu Phe Leu Ala Val
 1           5           10           15

His Glu Ala Trp Ala Gly Met Leu Lys Glu Glu Asp Asp Asp Thr Glu
      20           25           30

Arg Leu Pro Ser Lys Cys Glu Val Cys Lys Leu Leu Ser Thr Glu Leu
      35           40           45

Gln Ala Glu Leu Ser Arg Thr Gly Arg Ser Arg Glu Val Leu Glu Leu
      50           55           60

Gly Gln Val Leu Asp Thr Gly Lys Arg Lys Arg His Val Pro Tyr Ser
 65           70           75           80

Val Ser Glu Thr Arg Leu Glu Glu Ala Leu Glu Asn Leu Cys Glu Arg
      85           90           95

Ile Leu Asp Tyr Ser Val His Ala Glu Arg Lys Gly Ser Leu Arg Tyr
      100          105          110

Ala Lys Gly Gln Ser Gln Thr Met Ala Thr Leu Lys Gly Leu Val Gln
      115          120          125

Lys Gly Val Lys Val Asp Leu Gly Ile Pro Leu Glu Leu Trp Asp Glu
      130          135          140

Pro Ser Val Glu Val Thr Tyr Leu Lys Lys Gln Cys Glu Thr Met Leu
      145          150          155          160

Glu Glu Glu Glu Glu Glu Glu Glu Glu Gly Gly Asp Lys Met Thr
      165          170          175

Lys Thr Gly Ser His Pro Lys Leu Asp Arg Glu Asp Leu
      180          185

```

<210> 1584
 <211> 196
 <212> PRT
 <213> Homo sapiens

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (177)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (181)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (185)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (188)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (189)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (193)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1584
 Met Ser Leu Leu Val Asp Gly Asp Met Asn Leu Ser Ile Ile Met Thr
 1 5 10 15
 Ile Ser Ser Thr Leu Leu Ala Leu Val Leu Met Pro Leu Cys Leu Trp
 20 25 30
 Ile Tyr Ser Trp Ala Trp Ile Asn Thr Pro Ile Val Gln Leu Leu Pro
 35 40 45
 Leu Gly Thr Val Thr Leu Thr Leu Cys Ser Thr Leu Ile Pro Ile Gly
 50 55 60
 Leu Gly Val Phe Ile Arg Tyr Lys Tyr Ser Arg Val Ala Asp Tyr Ile
 65 70 75 80
 Val Lys Val Ser Leu Trp Ser Leu Leu Val Thr Leu Val Val Leu Phe
 85 90 95
 Ile Met Thr Gly Thr Met Leu Gly Pro Glu Leu Leu Ala Ser Ile Pro
 100 105 110
 Ala Ala Val Tyr Val Ile Ala Ile Phe Met Pro Leu Ala Gly Tyr Ala
 115 120 125
 Ser Gly Tyr Gly Leu Ala Thr Leu Phe His Leu Pro Pro Asn Cys Lys

130 135 140
 Arg Thr Val Cys Leu Glu Thr Gly Ser Gln Asn Val Gln Leu Cys Thr
 145 150 155 160
 Ala Ile Leu Lys Leu Ala Phe His Arg Ile Xaa Arg Lys His Xaa His
 165 170 175
 Xaa Ser Phe Ala Xaa Cys Thr Phe Xaa Val Cys Xaa Xaa Gly Asp Phe
 180 185 190
 Xaa Phe Asn Leu
 195

<210> 1585
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 1585
 Met Ala Leu Gly Ser Met Tyr Leu Val Leu Thr Leu Ile Val Ala Lys
 1 5 10 15
 Val Leu Arg Gly Ala Glu Pro Cys Cys Gly Pro Leu Lys Asn Arg Val
 20 25 30
 Leu Arg Pro Cys Pro Leu Pro Val His Cys Pro Leu Pro Ile Pro Ser
 35 40 45
 Pro Ala Glu Gly Ile Pro Trp Val Ala Tyr Leu Pro Ile Arg Trp Phe
 50 55 60
 Ile Ser Cys Cys Pro Gly His Cys Ile Gln Ile Pro Met Cys Thr Ser
 65 70 75 80

<210> 1586
 <211> 178
 <212> PRT
 <213> Homo sapiens

<400> 1586
 Met Ser Pro Ser Gly Arg Leu Cys Leu Leu Thr Ile Val Gly Leu Ile
 1 5 10 15
 Leu Pro Thr Arg Gly Gln Thr Leu Lys Asp Thr Thr Ser Ser Ser Ser
 20 25 30
 Ala Asp Ser Thr Ile Met Asp Ile Gln Val Leu Thr Arg Ala Pro Asp
 35 40 45

Ala Val Tyr Thr Glu Leu Gln Pro Thr Ser Pro Thr Pro Thr Trp Pro
 50 55 60
 Ala Asp Glu Thr Pro Gln Pro Gln Thr Gln Thr Gln Gln Leu Glu Lys
 65 70 75 80
 Thr Asp Gly Pro Leu Val Thr Asp Pro Glu Thr His Lys Ser Thr Lys
 85 90 95
 Ala Ala His Pro Thr Asp Asp Thr Thr Thr Leu Ser Glu Arg Pro Ser
 100 105 110
 Pro Ser Thr Asp Val Gln Thr Asp Pro Gln Thr Leu Lys Pro Ser Gly
 115 120 125
 Phe His Glu Asp Asp Pro Phe Phe Tyr Asp Glu His Thr Leu Arg Lys
 130 135 140
 Arg Gly Leu Leu Val Ala Ala Val Leu Phe Ile Thr Gly Ile Ile Ile
 145 150 155 160
 Leu Thr Ser Gly Lys Cys Arg Gln Leu Ser Arg Leu Cys Arg Asn His
 165 170 175
 Cys Arg

<210> 1587

<211> 219

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1587

Ala Ala Ala Thr Ala Ala Ser Leu Ser Pro Arg Gly Cys Arg Leu Arg
 1 5 10 15
 Thr Pro Ser Ser Asp Val Ser Pro Ser Arg Ala Pro Pro Pro Ser Ala
 20 25 30
 Ala Pro Leu Pro Thr Gly Arg Ala Xaa Met Ser Pro Ser Gly Arg Leu
 35 40 45
 Cys Leu Leu Thr Ile Val Gly Leu Ile Leu Pro Thr Arg Gly Gln Thr
 50 55 60
 Leu Lys Asp Thr Thr Ser Ser Ser Ser Ala Asp Ser Thr Ile Met Asp
 65 70 75 80
 Ile Gln Val Pro Thr Arg Ala Pro Asp Ala Val Tyr Thr Glu Leu Gln
 85 90 95

Pro Thr Ser Pro Thr Pro Thr Trp Pro Ala AspGlu Thr Pro Gln Pro
 100 105 110
 Gln Thr Gln Thr Gln Gln Leu Glu Gly Thr Asp Gly Pro Leu Val Thr
 115 120 125
 Asp Pro Glu Thr His Lys Ser Thr Lys Ala Ala His Pro ThrAsp Asp
 130 135 140
 Thr Thr Thr Leu Ser Glu Arg Pro Ser Pro Ser Thr Asp Val Gln Thr
 145 150 155 160
 Asp Pro Gln Thr Leu Lys Pro Ser Gly Phe His Glu Asp Asp Pro Phe
 165 170 175
 Phe Tyr Asp Glu His Thr Leu Arg Lys Arg Gly Leu Leu Val Ala Ala
 180 185 190
 Val Leu Phe Ile Thr Gly Ile Ile Ile Leu Thr Ser Gly Lys Cys Arg
 195 200 205
 Gln Leu Ser Arg Leu Cys Arg Asn His Cys Arg
 210 215

<210> 1588
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1588
 Met Ala Gly Pro Trp Thr Phe Thr Leu Leu Cys Gly Leu LeuAla Ala
 1 5 10 15
 Thr Leu Ile Gln Ala Thr Leu Ser Pro Thr Ala Val Leu Ile Leu Gly
 20 25 30
 Pro Lys Val Ile Lys Glu Lys Leu Thr Gln Glu Leu Lys Asp HisAsn
 35 40 45
 Ala Thr Ser Ile Leu Gln Gln Leu Pro Leu Leu Ser Ala Met Arg Glu
 50 55 60
 Lys Pro Ala Gly Ala Ser Leu Cys Trp Ala Ala Trp
 65 70 75

<210> 1589
 <211> 130
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE

<222> (64)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (65)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1589
 Met Leu Met Pro Val His Phe Leu Leu Leu Leu Leu Leu Leu Gly
 1 5 10 15
 Gly Pro Arg Thr Gly Leu Pro His Lys Phe Tyr Lys Ala Lys Pro Ile
 20 25 30
 Phe Ser Cys Leu Asn Thr Ala Leu Ser Glu Ala Glu Lys Gly Gln Trp
 35 40 45
 Glu Asp Ala Ser Leu Leu Ser Lys Arg Ser Phe His Tyr Leu Arg Xaa
 50 55 60
 Xaa Thr Pro Leu Arg Glu Arg Arg Arg Arg Ala Lys Arg Lys Arg Leu
 65 70 75 80
 Ser Pro Ser Leu Gly Pro Gly Val Glu Pro Glu Ala Pro Gly Thr Asp
 85 90 95
 Thr Cys Pro Lys His Ser Pro Gly Glu Ser His Ala Arg Thr Arg Pro
 100 105 110
 Arg Val Pro Thr Ala Pro Ser Ser Pro Cys Pro Ser Thr Ser Pro Pro
 115 120 125
 Thr Ser
 130

<210> 1590
 <211> 173
 <212> PRT
 <213> Homo sapiens

<400> 1590
 Met Glu Ala Pro Gly Pro Arg Ala Leu Arg Thr Ala Leu Cys Gly Gly
 1 5 10 15
 Cys Cys Cys Leu Leu Leu Cys Ala Gln Leu Aa Val Ala Gly Lys Gly
 20 25 30
 Ala Arg Gly Phe Gly Arg Gly Ala Leu Ile Arg Leu Asn Ile Trp Pro
 35 40 45
 Ala Val Gln Gly Ala Cys Lys Gln Leu Glu Val Cys Glu His Cys Val
 50 55 60
 Glu Gly Asp Arg Ala Arg Asn Leu Ser Ser Cys Met Trp Glu Gln Cys

65					70					75				80
Arg	Pro	Glu	Glu	Pro	Gly	His	Cys	Val	Ala	Gln	Ser	Glu	Val	Val
				85					90				95	ys
Glu	Gly	Cys	Ser	Ile	Tyr	Asn	Arg	Ser	Glu	Ala	Cys	Pro	Ala	Ala
			100					105					110	His
His	His	Pro	Thr	Tyr	Glu	Pro	Lys	Thr	Val	Thr	Thr	Gly	Ser	Pro
		115					120					125		Pro
Val	Pro	Glu	Ala	His	Ser	Pro	Gly	Phe	Asp	Gly	Ala	Ser	Phe	Ile
		130					135				140			Gly
Gly	Val	Val	Leu	Val	Leu	Ser	Leu	Gln	Ala	Val	Ala	Phe	Phe	Val
145					150					155				160
His	Phe	Leu	Lys	Ala	Lys	Asp	Ser	Thr	Tyr	Gln	Thr	Leu		
			165						170					

<210> 1591

<211> 210

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (187)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1591

Met	Glu	Ala	Pro	Gly	Pro	Arg	Ala	Leu	Arg	Thr	Ala	Leu	Cys	Gly	Gly
1				5					10					15	

Cys	Cys	Cys	Leu	Leu	Leu	Cys	Ala	Gln	Leu	Ala	Val	Ala	Gly	Lys	Gly
			20					25					30		

Ala	Arg	Gly	Phe	Gly	Arg	Gly	Ala	Leu	Ile	Arg	Leu	Asn	Ile	Trp	Pro
		35					40					45			

Ala	Val	Gln	Gly	Ala	Cys	Lys	Gln	Leu	Glu	Val	Cys	Glu	His	Cys	Val
	50					55					60				

Glu	Gly	Asp	Arg	Ala	Arg	Asn	Leu	Ser	Ser	Cys	Met	Trp	Glu	Gln	Cys
65					70					75				80	

Arg	Pro	Glu	Glu	Pro	Gly	His	Cys	Val	Ala	Gln	Ser	Glu	Val	Val	Lys
				85					90					95	

Glu	Gly	Cys	Ser	Ile	Tyr	Asn	Arg	Ser	Glu	Ala	Cys	Pro	Ala	Ala	His
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

100	105	110
His His Pro Thr Tyr Glu Pro Lys Thr Val Thr Thr Gly Ser Pro Pro		
115	120	125
Val Pro Glu Ala His Ser Pro Gly Phe Asp Xaa Ala Ser Phe Ile Gly		
130	135	140
Gly Val Val Leu Val Leu Ser Leu Gln Ala Val Ala Phe Phe Val Leu		
145	150	155
Thr Ser Ser Arg Pro Arg Thr Ala Pro Thr Arg Arg Cys Glu Tyr Leu		
	165	170
Ala Ser Ser Lys Tyr Leu Ser Pro Ser Ser Xaa Leu Val Pro Ala His		
	180	185
Val Pro Phe Ser Thr Gln Gly Ala Val Phe Ser Thr Gly Lys Pro Ser		
	195	200
		205
Gly Arg		
210		

<210> 1592
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 1592
 Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
 1 5 10 15
 Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
 20 25 30
 Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
 35 40 45
 Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
 50 55 60
 Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
 65 70 75 80
 Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Arg Ser Pro Trp His
 85 90 95
 Pro Gly Asn

<210> 1593
 <211> 245
 <212> PRT

<213> Homo sapiens

<400> 1593

Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
1 5 10 15
Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
20 25 30
Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
35 40 45
Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
50 55 60
Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
65 70 75 80
Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
85 90 95
Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln
100 105 110
Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly
115 120 125
Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr
130 135 140
Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr
145 150 155 160
Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val
165 170 175
Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr
180 185 190
Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
195 200 205
Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly
210 215 220
His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu
225 230 235 240
Ile Phe Pro Ser Ala
245

<210> 1594

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1594

Met Arg Gly Thr Pro Lys Thr His Leu Leu Ala Phe Ser Leu Leu Cys
1 5 10 15
Leu Leu Ser Lys Val Arg Thr Gln Leu Cys Pro Thr Pro Cys Thr Cys
20 25 30
Pro Trp Pro Pro Pro Arg Cys Pro Leu Gly Val Pro Leu Val Leu Asp
35 40 45
Gly Cys Gly Cys Cys Arg Val Cys Ala Arg Arg Leu Gly Glu Pro Cys
50 55 60
Asp Gln Leu His Val Cys Asp Ala Ser Gln Gly Leu Val Cys Gln Pro
65 70 75 80
Gly Ala Gly Pro Gly Gly Arg Gly Ala Leu Cys Leu Leu Ala Glu Asp
85 90 95
Asp Ser Ser Cys Glu Val Asn Gly Arg Leu Tyr Arg Glu Gly Glu Thr
100 105 110
Phe Gln Pro His Cys Ser Ile Arg Cys Arg Cys Glu Asp Gly Gly Phe
115 120 125
Thr Cys Val Pro Leu Cys Ser Glu Asp Val Arg Leu Pro Ser Trp Asp
130 135 140
Cys Pro His Pro Arg Arg Val Glu Val Leu Gly Lys Cys Cys Pro Glu
145 150 155 160
Trp Val Cys Gly Gln Gly Gly Gly Leu Gly Thr Gln Pro Leu Pro Ala
165 170 175
Gln Gly Pro Gln Phe Ser Gly Leu Val Ser Ser Leu Pro Pro Gly Val
180 185 190
Pro Cys Pro Glu Trp Ser Thr Ala Trp Gly Pro Cys Ser Thr Thr Cys
195 200 205
Gly Leu Gly Met Ala Thr Arg Val Ser Asn Gln Asn Arg Phe Cys Arg
210 215 220
Leu Glu Thr Gln Arg Arg Leu Cys Leu Ser Arg Pro Cys Pro Pro Ser
225 230 235 240
Arg Gly Arg Ser Pro Gln Asn Ser Ala Phe
245 250

<210> 1595

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1595

Met Arg Gly Thr Pro Lys Thr His Leu Leu Ala Phe Ser Leu Leu Cys
1 5 10 15
Leu Leu Ser Lys Val Arg Thr Gln Leu Cys Pro Thr Pro Cys Thr Cys
20 25 30
Pro Trp Pro Pro Pro Arg Cys Pro Leu Gly Val Pro Leu Val Leu Asp
35 40 45
Gly Cys Gly Cys Cys Arg Val Cys Ala Arg Arg Leu Gly Glu Pro Cys
50 55 60
Asp Gln Leu His Val Cys Asp Ala Ser Gln Gly Leu Val Cys Gln Pro
65 70 75 80
Gly Ala Gly Pro Gly Gly Arg Gly Ala Leu Cys Leu Leu Ala Glu Asp
85 90 95
Asp Ser Ser Cys Glu Val Asn Gly Arg Leu Tyr Arg Glu Gly Glu Thr
100 105 110
Phe Gln Pro His Cys Ser Ile Arg Cys Arg Cys Glu Asp Gly Gly Phe
115 120 125
Thr Cys Val Pro Leu Cys Ser Glu Asp Val Arg Leu Pro Ser Trp Asp
130 135 140
Cys Pro His Pro Arg Arg Val Glu Val Leu Gly Lys Cys Cys Pro Glu
145 150 155 160
Trp Val Cys Gly Gln Gly Gly Gly Leu Gly Thr Gln Pro Leu Pro Ala
165 170 175
Gln Gly Pro Gln Phe Ser Gly Leu Val Ser Ser Leu Pro Pro Gly Val
180 185 190
Pro Cys Pro Glu Trp Ser Thr Ala Trp Gly Pro Cys Ser Thr Thr Cys
195 200 205
Gly Leu Gly Met Ala Thr Arg Val Ser Asn Gln Asn Arg Phe Cys Arg
210 215 220
Leu Glu Thr Gln Arg Arg Leu Cys Leu Ser Arg Pro Cys Pro Pro Ser
225 230 235 240
Arg Gly Arg Ser Pro Gln Asn Ser Ala Phe
245 250

<210> 1596

<211> 281

<212> PRT

<213> Homo sapiens

<400> 1596

Met Ser Ile Leu Thr Met Ile Ser Ser Trp Pro Phe Ser Arg Val Val
1 5 10 15
Arg Phe Trp Phe Leu His Gln Met Val Leu Asp Leu Cys Leu Gly Gln
20 25 30
Gly Val Pro Gln Gln Asn Leu Gly Lys Pro Lys Gly Lys Lys Lys Leu
35 40 45
Ser Ser Val Arg Gln Lys Phe Asp His Arg Phe Gln Pro Gln Asn Pro
50 55 60
Leu Ser Gly Ala Gln Gln Phe Val Ala Lys Asp Pro Gln Asp Asp Asp
65 70 75 80
Asp Leu Lys Leu Cys Ser His Thr Met Met Leu Pro Thr Arg Gly Gln
85 90 95
Leu Glu Gly Arg Met Ile Val Thr Ala Tyr Glu His Gly Leu Asp Asn
100 105 110
Val Thr Glu Glu Ala Val Ser Ala Val Val Tyr Ala Val Glu Asn His
115 120 125
Leu Lys Asp Ile Leu Thr Ser Val Val Ser Arg Arg Lys Ala Tyr Arg
130 135 140
Leu Arg Asp Gly His Phe Lys Tyr Ala Phe Gly Ser Asn Val Thr Pro
145 150 155 160
Gln Pro Tyr Leu Lys Asn Ser Val Val Aa Tyr Asn Asn Leu Ile Glu
165 170 175
Ser Pro Pro Ala Phe Thr Ala Pro Cys Ala Gly Gln Asn Pro Ala Ser
180 185 190
His Pro Pro Pro Asp Asp Ala Glu Gln Gln Aa Ala Leu Leu Leu Ala
195 200 205
Cys Ser Gly Asp Thr Leu Pro Ala Ser Leu Pro Pro Val Asn Met Tyr
210 215 220
Asp Leu Phe Glu Ala Leu Gln Val His Arg Glu Val Ile Pro Thr His
225 230 235 240
Thr Val Tyr Ala Leu Asn Ile Glu Arg Ile Ile Thr Lys Leu Trp His
245 250 255
Pro Asn His Glu Glu Leu Gln Gln Asp Lys Val His Arg Gln Ag Leu
260 265 270
Ala Ala Lys Glu Gly Leu Leu Leu Cys
275 280

<210> 1597

<211> 89
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (75)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1597
 Met Phe Lys Asp Tyr Pro Pro Ala Ile Lys Pro Ser Tyr Asp Val Leu
 1 5 10 15
 Leu Leu Leu Leu Leu Leu Val Xaa Leu Leu Gln Ala Gly Leu Asn Thr
 20 25 30
 Gly Thr Ala Ile Gln Cys Val Arg Phe Lys Val Ser Ala Arg Leu Gln
 35 40 45
 Gly Ala Ser Trp Asp Thr Gln Asn Gly Pro Gln Glu Arg Leu Ala Gly
 50 55 60
 Glu Val Ala Arg Ser Pro Leu Lys Glu Phe Xaa Lys Glu Lys Ala Trp
 65 70 75 80
 Arg Ala Val Val Val Gln Met Ala Gln
 85

<210> 1598
 <211> 335
 <212> PRT
 <213> Homo sapiens

<400> 1598
 Met Lys Lys Glu Leu Pro Val Asp Ser Cys Leu Pro Arg Ser Leu Glu
 1 5 10 15
 Leu His Pro Gln Lys Met Asp Pro Lys Arg Gln His Ile Gln Leu Leu
 20 25 30
 Ser Ser Leu Thr Glu Cys Leu Thr Val Asp Pro Leu Ser Ala Ser Val
 35 40 45
 Trp Arg Gln Leu Tyr Pro Lys His Leu Ser Gln Ser Ser Leu Leu Leu
 50 55 60
 Glu His Leu Leu Ser Ser Trp Glu Gln Ile Pro Lys Lys Val Gln Lys
 65 70 75 80
 Ser Leu Gln Glu Thr Ile Gln Ser Leu Lys Leu Thr Asn Gln Glu Leu

85										90										95													
Leu	Arg	Lys	Gly	Ser	Ser	Asn	Asn	Gln	Asp	Val	Val	Thr	Cys	Asp	Met																		
			100					105					110																				
Ala	Cys	Lys	Gly	Leu	Leu	Gln	Gln	Val	Gln	Gly	Pro	Arg	Leu	Pro	Trp																		
		115					120					125																					
Thr	Arg	Leu	Leu	Leu	Leu	Leu	Leu	Val	Phe	Ala	Val	Gly	Phe	Leu	Cys																		
		130				135					140																						
His	Asp	Leu	Arg	Ser	His	Ser	Ser	Phe	Gln	Ala	Ser	Leu	Thr	Gly	Arg																		
145					150					155					160																		
Leu	Leu	Arg	Ser	Ser	Gly	Phe	Leu	Pro	Ala	Ser	Gln	Gln	Ala	Cys	Ala																		
			165					170						175																			
Lys	Leu	Tyr	Ser	Tyr	Ser	Leu	Gln	Gly	Tyr	Ser	Trp	Leu	Gly	Glu	Thr																		
		180					185						190																				
Leu	Pro	Leu	Trp	Gly	Ser	His	Leu	Leu	Thr	Val	Val	Arg	Pro	Ser	Leu																		
		195					200					205																					
Gln	Leu	Ala	Trp	Ala	His	Thr	Asn	Ala	Thr	Val	Ser	Phe	Leu	Ser	Ala																		
		210				215					220																						
His	Cys	Ala	Ser	His	Leu	Ala	Trp	Phe	Gly	Asp	Ser	Leu	Thr	Ser	Leu																		
225					230					235					240																		
Ser	Gln	Arg	Leu	Gln	Ile	Gln	Leu	Pro	Asp	Ser	Val	Asn	Gln	Leu	Leu																		
			245					250					255																				
Arg	Tyr	Leu	Arg	Glu	Leu	Pro	Leu	Leu	Phe	His	Gln	Asn	Val	Leu	Leu																		
		260					265						270																				
Pro	Leu	Trp	His	Leu	Leu	Leu	Glu	Ala	Leu	Ala	Trp	Ala	Gln	Glu	His																		
		275					280					285																					
Cys	His	Glu	Ala	Cys	Arg	Gly	Glu	Val	Thr	Trp	Asp	Cys	Met	Lys	Thr																		
		290				295					300																						
Gln	Leu	Ser	Glu	Ala	Val	His	Trp	Thr	Trp	Leu	Cys	Leu	Gln	Asp	Ile																		
		305			310					315				320																			
Thr	Val	Ala	Phe	Leu	Asp	Trp	Ala	Leu	Ala	Leu	Ile	Ser	Gln	Gln																			
			325					330						335																			

<210> 1599
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 1599
 Met His Gln Leu Phe Gly Leu Phe Val Thr Leu Met Phe Ala Ser Val
 1 5 10 15

Gly Gly Gly Leu Gly Gly Ile Ile Leu Val Leu
20 25

<210> 1600
<211> 54
<212> PRT
<213> Homo sapiens

<400> 1600
Leu Ala Ala Thr Arg Lys Phe Phe Leu Ser Ser His Ser Ser Ser Cys
1 5 10 15
Lys Lys Gly Ala Met Ser Gln Lys Glu Ala Pro Phe His Arg Gln Arg
20 25 30
Leu His Arg Glu Arg Gly Asn Arg Arg Leu Gly Asn Gly Gly Glu Trp
35 40 45
Gly Arg Asn Trp Val Gln
50

<210> 1601
<211> 147
<212> PRT
<213> Homo sapiens

<400> 1601
Met Leu Ala Gly Ala Gly Arg Pro Gly Leu Pro Gln Gly Arg His Leu
1 5 10 15
Cys Trp Leu Leu Cys Ala Phe Thr Leu Lys Leu Cys Gln Ala Glu Ala
20 25 30
Pro Val Gln Glu Glu Lys Leu Ser Ala Ser Thr Ser Asn Leu Pro Cys
35 40 45
Trp Leu Val Glu Glu Phe Val Val Ala Glu Glu Cys Ser Pro Cys Ser
50 55 60
Asn Phe Arg Ala Lys Thr Thr Pro Glu Cys Gly Pro Thr Gly Tyr Val
65 70 75 80
Glu Lys Ile Thr Cys Ser Ser Ser Lys Arg Asn Glu Phe Lys Ser Cys
85 90 95
Arg Phe Ser Phe Glu Trp Asn Asn Ala Tyr Phe Gly Ser Ser Lys Gly
100 105 110
Ala Val Val Cys Val Ala Leu Ile Phe Ala Cys Leu Val Ile Ile Arg
115 120 125
Gln Arg Gln Leu Asp Arg Lys Ala Leu Glu Lys Val Arg Lys Gln Ile

130 135 140
 Glu Ser Ile
 145

 <210> 1602
 <211> 70
 <212> PRT
 <213> Homo sapiens

 <400> 1602
 Met Thr His Trp Ser Gly Cys Ala Ala Leu Tyr Leu Ile Phe Leu Ser
 1 5 10 15
 Leu Lys Leu Ala Phe Gln Ala Gly Ala Gly Arg Gly Ala Gln Val Gly
 20 25 30
 Ser Val Leu Pro Pro Ser Gly Gly Ala Val Val Val Asp Gln Tyr Cys
 35 40 45
 Cys Arg Leu Ser Ala Gln Thr Tyr Phe Ser Leu Pro Ala Leu Gln Lys
 50 55 60
 Cys Ile Gly Ile Cys Arg
 65 70

 <210> 1603
 <211> 91
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (84)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 1603
 Met Tyr Gly Lys Ser Ser Thr Arg Ala Val Leu Leu Leu Leu Gly Ile
 1 5 10 15
 Gln Leu Thr Ala Leu Trp Pro Ile Ala Ala Val Glu Ile Tyr Thr Ser
 20 25 30
 Arg Val Leu Glu Ala Val Asn Gly Thr Asp Ala Arg Leu Lys Cys Thr
 35 40 45
 Phe Ser Ser Phe Ala Pro Val Gly Asp Ala Leu Thr Val Thr Trp Asn
 50 55 60
 Phe Arg Pro Leu Asp Gly Gly Pro Glu Gln Phe Val Phe Tyr Tyr His
 65 70 75 80
 Ile Asp Pro Xaa Pro Thr His Glu Trp Ala Val

85

90

<210> 1604
 <211> 158
 <212> PRT
 <213> Homo sapiens

<400> 1604
 Met Thr Thr Met Ala Pro Val Gly Leu Gln Thr Arg Ile Pro Trp Leu
 1 5 10 15
 Leu Cys Leu Gly Pro Pro Pro Gly Pro Cys Cys Pro Leu Ser Pro Thr
 20 25 30
 Ser Thr Leu Pro His Thr Pro Thr Ala Arg Ser Leu His Pro Thr Met
 35 40 45
 Ser Phe His Leu Thr Pro Met Val Gly Ala Val Pro Ala Ala Ser Ile
 50 55 60
 Val Arg Ala Ala Gly Ala Val Gly Arg His Gly Val Met Gly Gly Gln
 65 70 75 80
 Gly Ala Arg Gly Gly Pro Arg Ser Gly Pro Pro Ser Pro Ser Pro Ala
 85 90 95
 Val Ala Val Ser Leu Ser Pro Pro Ala Glu Gly Ala Ala Phe Gly Gly
 100 105 110
 Val Gly Lys Gln Val Gly Leu Ala Met Gly Ala Leu Leu His Pro Glu
 115 120 125
 Ala Gln Leu Gly Val Pro Leu Ile Ser Glu Pro Thr Gln Gly Ser Ile
 130 135 140
 Pro Met Asp Arg Pro Leu Ala Trp Pro Ser Pro Thr Thr Pro
 145 150 155

<210> 1605
 <211> 106
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1605
 Pro Thr Phe Ser Asp Gln Tyr Leu Ala Pro His Pro Tyr Ser Pro Gln
 1 5 10 15
 Pro Pro Pro Tyr His Glu Leu Pro His Xaa His Gly Gln Ser Gln Arg

Gln Met Ile Asn Ser Lys Trp Phe Asp Ala Leu Pro Asn Leu Glu Ile
 180 185 190
 Leu Met Ile Gly Glu Asn Pro Ile Ile Arg Ile Lys Asp Met Asn Phe
 195 200 205
 Lys Pro Leu Ile Asn Leu Arg Ser Leu Val Ile Ala Gly Ile Asn Leu
 210 215 220
 Thr Glu Ile Pro Asp Asn Ala Leu Val Gly Leu Glu Asn Leu Glu Ser
 225 230 235 240
 Ile Ser Phe Tyr Asp Asn Arg Leu Ile Lys Val Pro His Val Ala Leu
 245 250 255
 Gln Lys Val Val Asn Leu Lys Phe Leu Asp Leu Asn Lys Asn Pro Ile
 260 265 270
 Asn Arg Ile Arg Arg Gly Asp Phe Ser Asn Met Leu His Leu Lys Glu
 275 280 285
 Leu Gly Ile Asn Asn Met Pro Glu Leu Ile Ser Ile Asp Ser Leu Ala
 290 295 300
 Val Asp Asn Leu Pro Asp Leu Arg Lys Ile Glu Ala Thr Asn Asn Pro
 305 310 315 320
 Arg Leu Ser Tyr Ile His Pro Asn Ala Phe Phe Arg Leu Pro Lys Leu
 325 330 335
 Glu Ser Leu Met Leu Asn Ser Asn Ala Leu Ser Ala Leu Tyr His Gly
 340 345 350
 Thr Ile Glu Ser Leu Pro Asn Leu Lys Glu Ile Ser Ile His Ser Asn
 355 360 365
 Pro Ile Arg Cys Asp Cys Val Ile Arg Trp Met Asn Met Asn Lys Thr
 370 375 380
 Asn Ile Arg Phe Met Glu Pro Asp Ser Leu Phe Cys Val Asp Pro Pro
 385 390 395 400
 Glu Phe Gln Gly Gln Asn Val Arg Gln Val His Phe Arg Asp Met Met
 405 410 415
 Glu Ile Cys Leu Pro Leu Ile Ala Pro Glu Ser Phe Pro Ser Asn Leu
 420 425 430
 Asn Val Glu Ala Gly Ser Tyr Val Ser Phe His Cys Arg Ala Thr Ala
 435 440 445
 Glu Pro Gln Pro Glu Ile Tyr Trp Ile Thr Pro Ser Gly Gln Lys Leu
 450 455 460
 Leu Pro Asn Thr Leu Thr Asp Lys Phe Tyr Val His Ser Glu Gly Thr
 465 470 475 480

Leu Asp Ile Asn Gly Val Thr Pro Lys Glu Gly Gly Leu Tyr Thr Cys
 485 490 495
 Ile Ala Thr Asn Leu Val Gly Ala Asp Leu Lys Ser Val Met Ile Lys
 500 505 510
 Val Asp Gly Ser Phe Pro Gln Asp Asn Asn Gly Ser Leu Asn Ile Lys
 515 520 525
 Ile Arg Asp Ile Gln Ala Asn Ser Val Leu Val Ser Trp Lys Ala Ser
 530 535 540
 Ser Lys Ile Leu Lys Ser Ser Val Lys Trp Thr Ala Phe Val Lys Thr
 545 550 555 560
 Glu Asn Ser His Ala Ala Gln Ser Ala Arg Ile Pro Ser Asp Val Lys
 565 570 575
 Val Tyr Asn Leu Thr His Leu Asn Pro Ser Thr Glu Tyr Lys Ile Cys
 580 585 590
 Ile Asp Ile Pro Thr Ile Tyr Gln Lys Asn Arg Lys Lys Cys Val Asn
 595 600 605
 Val Thr Thr Lys Gly Leu His Pro Asp Gln Lys Glu Tyr Glu Lys Asn
 610 615 620
 Asn Thr Thr Thr Leu Met Ala Cys Leu Gly Gly Leu Leu Gly Ile Ile
 625 630 635 640
 Gly Val Ile Cys Leu Ile Ser Cys Leu Ser Pro Glu Met Asn Cys Asp
 645 650 655
 Gly Gly His Ser Tyr Val Arg Asn Tyr Leu Gln Lys Pro Thr Phe Ala
 660 665 670
 Leu Gly Glu Leu Tyr Pro Pro Leu Ile Asn Leu Trp Glu Ala Gly Lys
 675 680 685
 Glu Lys Ser Thr Ser Leu Lys Val Lys Ala Thr Val Ile Gly Leu Pro
 690 695 700
 Thr Asn Met Ser
 705

<210> 1607

<211> 244

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (231)

<223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (237)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 1607
 Met Arg Ala Pro Phe Asn Thr Leu Phe Gly Arg Leu Phe Tyr Leu Leu
 1 5 10 15

 Leu Val Ala Ile Val Leu Ala His Val Leu Ala Phe Phe Trp Phe His
 20 25 30

 His Tyr Gly Pro Pro Pro Pro Arg Ala Ala Phe Val Glu En Pro
 35 40 45

 Asp Gly Ser Leu Thr Pro Leu Arg Lys Ala Pro Arg Pro Trp Phe Gly
 50 55 60

 Gly Pro Val Val Pro Leu Thr Phe Gln Phe Ile Ser Leu Ile Ile Ala
 65 70 75 80

 Ala Trp Tyr Gly Ala Lys Leu Leu Ser Arg Pro Ile Gln Arg Leu Ser
 85 90 95

 Ala Ala Ala Glu Arg Leu Ser Val Asp Leu Asp Ser Pro Pro Leu Val
 100 105 110

 Glu Thr Gly Pro Arg Glu Ala Arg Gln Ala Ala Ser Thr Phe Asn Leu
 115 120 125

 Met Gln Lys Arg Ile Arg Glu Gln Val Ser Gln Arg Ala Arg Met Leu
 130 135 140

 Gly Ala Val Ser His Asp Leu Arg Thr Pro Leu Ser Arg Leu Lys Leu
 145 150 155 160

 Arg Leu Glu Gln Ile Glu Asp Pro Lys Leu Gln Gly Gln Met Arg Gln
 165 170 175

 Asp Leu Asp Asp Met Ile Gly Met Leu Asp Ala Thr Leu Ser Tyr Leu
 180 185 190

 His Glu Gln Arg Thr Ser Glu Thr Arg His Trp Leu Asp Val Gln Ala
 195 200 205

 Leu Val Glu Ser Leu Ser Glu Asn Ala Gln Asp Gln Gly Arg Asp Val
 210 215 220

 Gln Phe Phe Phe Gly Gly Xaa Pro Pro Gly Gly Gly Xaa Pro Lys Thr
 225 230 235 240

 Pro Pro Pro Phe

<210> 1608
 <211> 244
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (25)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (40)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (231)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (237)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1608
 Met Arg Ala Pro Phe Asn Thr Leu Phe Gly Arg Leu Phe Gly Leu Leu
 1 5 10 15
 Leu Val Ala Ile Val Leu Ala His Xaa Leu Ala Phe Phe Trp Phe His
 20 25 30
 His Tyr Gly Pro Pro Pro Pro Xaa Xaa Ala Xaa Phe Val Glu Gln Pro
 35 40 45
 Asp Gly Ser Leu Thr Pro Leu Arg Lys Ala Pro Arg Pro Trp Phe Gly
 50 55 60
 Gly Pro Val Val Pro Leu Thr Phe Gln Phe Ile Ser Leu Ile Ile Ala
 65 70 75 80
 Ala Trp Tyr Gly Ala Lys Leu Leu Ser Arg Pro Ile Gln Arg Leu Ser
 85 90 95
 Ala Ala Ala Glu Arg Leu Ser Val Asp Leu Asp Ser Pro Pro Leu Val
 100 105 110

Glu Thr Gly Pro Arg Glu Ala Arg Gln Ala Ala Ser Thr Phe Asn Leu
 115 120 125
 Met Gln Lys Arg Ile Arg Glu Gln Val Ser Gln Arg Ala Arg Met Leu
 130 135 140
 Gly Ala Val Ser His Asp Leu Arg Thr Pro Leu Ser Arg Leu Lys Leu
 145 150 155 160
 Arg Leu Glu Gln Ile Glu Asp Pro Lys Leu Gln Gly Gln Met Arg Gln
 165 170 175
 Asp Leu Asp Asp Met Ile Gly Met Leu Asp Ala Thr Leu Ser Tyr Leu
 180 185 190
 His Glu Gln Arg Thr Ser Glu Thr Arg His Trp Leu Asp Val Gln Ala
 195 200 205
 Leu Val Glu Ser Leu Ser Glu Asn Ala Gln Asp Gln Gly Arg Asp Val
 210 215 220
 Gln Phe Phe Phe Gly Gly Xaa Pro Pro Gly Gly Gly Xaa Pro Lys Thr
 225 230 235 240
 Pro Pro Pro Phe

<210> 1609
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 1609
 Met Gly Leu Phe Leu Phe Leu Val Ser Ser
 1 5 10

<210> 1610
 <211> 146
 <212> PRT
 <213> Homo sapiens

<400> 1610
 Met Trp Lys Leu Trp Arg Ala Glu Glu Gly Ala Ala Ala Leu Gly Gly
 1 5 10 15
 Ala Leu Phe Leu Leu Leu Phe Ala Leu Gly Val Arg Gln Leu Leu Lys
 20 25 30
 Gln Arg Arg Pro Met Gly Phe Pro Pro Gly Pro Pro Gly Leu Pro Phe
 35 40 45
 Ile Gly Asn Ile Tyr Ser Leu Ala Ala Ser Ser Glu Leu Pro His Val
 50 55 60

Tyr Met Arg Lys Gln Ser Gln Val Tyr Gly GluVal Gln Pro Arg Arg
 65 70 75 80
 Ala Pro Gly Arg Glu Gly Arg Gln Ala Gly Pro Gly Trp Pro Gly Pro
 85 90 95
 Ser Trp Leu Asp Leu Trp Pro Pro Leu GlyArg Leu Val Gly Thr Ser
 100 105 110
 Pro Cys Ala Gly Cys Pro Leu Arg Asp Thr Arg Phe Pro Gly Leu Glu
 115 120 125
 Gly Arg Ser Pro Arg Arg Arg Ala Pro Leu Gln Gly GluPro Arg Pro
 130 135 140
 Cys Arg
 145

<210> 1611
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1611
 Met Val Thr Phe Ala Ser Ser Thr Leu Trp Ile Ala Ala Phe Ser Tyr
 1 5 D 15
 Met Met Val Trp Met Val Thr Ile Ile Gly Tyr Thr Leu Gly Ile Pro
 20 25 30
 Asp Val Ile Met Gly Asp His Leu Pro Gly Cys Trp Asp Gln Arg Ala
 35 40 45

<210> 1612
 <211> 271
 <212> PRT
 <213> Homo sapiens

<400> 1612
 Met Thr Gln Gly Lys Leu Ser Val Ala Asn Lys Ala Pro Gly Thr Glu
 1 5 10 15
 Gly Gln Gln Gln Val His Gly Glu Lys Lys Glu Ala Pro Ala Val Pro
 20 25 30
 Ser Ala Pro Pro Ser Tyr Glu Glu Ala Thr Ser Gly Glu Gly Met Lys
 35 40 45
 Ala Gly Ala Phe Pro Pro Ala Pro Thr Ala Val Pro Leu His Pro Ser

50 55 60
 Trp Ala Tyr Val Asp Pro Ser Ser Ser Ser Tyr Asp Asn Gly Phe
 65 70 75 80
 Pro Thr Gly Asp His Glu Leu Phe Thr Thr Phe Ser Trp Asp Asn Gln
 85 90 95
 Lys Val Arg Arg Val Phe Val Arg Lys Val Tyr Thr Ile Leu Leu Ile
 100 105 110
 Gln Leu Leu Val Thr Leu Ala Val Val Ala Leu Phe Thr Phe Cys Asn
 115 120 125
 Pro Val Lys Asp Tyr Val Gln Ala Asn Pro Gly Trp Tyr Trp Ala Ser
 130 135 140
 Tyr Ala Val Phe Phe Ala Thr Tyr Leu Thr Leu Ala Cys Cys Ser Gly
 145 150 155 160
 Pro Arg Arg His Phe Pro Trp Glu Pro Asp Ser Pro Asp Arg Leu Tyr
 165 170 175
 Pro Val His Gly Leu Pro His Trp Asp Ala Val Gln Leu Leu Gln His
 180 185 190
 His Leu Arg Ala Ala Val Pro Gly His His Gly Pro Cys Leu Pro Leu
 195 200 205
 Ser His Arg Leu Gln Leu Pro Asp Gln Val Arg Leu His Leu Leu Pro
 210 215 220
 Gly Arg Ala Leu Arg Ala Ser His Asp Ser Phe Leu Gln Arg Thr His
 225 230 235 240
 Pro Gly His Pro Pro Thr Leu Pro Ile Cys Ala Leu Ala Pro Cys Ser
 245 250 255
 Leu Cys Ser Thr Gly Ser Gly Cys Ile Tyr Ile Val Pro Gly Thr
 260 265 270

<210> 1613
 <211> 138
 <212> PRT
 <213> Homo sapiens

<400> 1613
 Met Ala Tyr Leu Thr Gly Met Leu Ser Ser Tyr Tyr Asn Thr Thr Ser
 1 5 10 15
 Val Leu Leu Cys Leu Gly Ile Thr Ala Leu Val Cys Leu Ser Val Thr
 20 25 30
 Val Phe Ser Phe Gln Thr Lys Phe Asp Phe Thr Ser Cys Gln Gly Val
 35 40 45

Leu Phe Val Leu Leu Met Thr Leu Phe Phe Ser Gly Leu Ile Leu Ala
 50 55 60
 Ile Leu Leu Pro Phe Gln Tyr Val Pro Trp Leu His Ala ValTyr Ala
 65 70 75 80
 Ala Leu Gly Ala Gly Val Phe Thr Leu Phe Leu Ala Leu Asp Thr Gln
 85 90 95
 Leu Leu Met Gly Asn Arg Arg His Ser Leu Ser Pro GluGlu Tyr Ile
 100 105 110
 Phe Gly Ala Leu Asn Ile Tyr Leu Asp Ile Ile Tyr Ile Phe Thr Phe
 115 120 125
 Phe Leu Gln Leu Phe Gly Thr Asn Arg Glu
 130 135

<210> 1614
 <211> 612
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (245)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (246)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (249)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1614
 Met Ala Ala Ala Gly Arg Leu Pro Ser Ser Trp Ala Leu Phe Ser Pro
 1 5 10 15
 Leu Leu Ala Gly Leu Ala Leu Leu Gly Val Gly Pro Val Pro Ala Arg
 20 25 30
 Ala Leu His Asn Val Thr Ala Glu Leu Phe Gly Ala Glu Ala Trp Gly
 35 40 45
 Thr Leu Ala Ala Phe Gly Asp Leu Asn Ser Asp Lys Gln Thr Asp Leu
 50 55 60
 Phe Val Leu Arg Glu Arg Asn Asp Leu Ile Val Phe Leu Ala Asp Gln
 65 70 75 80

Asn	Ala	Pro	Tyr	Phe	Lys	Pro	Lys	Val	Lys	Val	Ser	Phe	Lys	Asn	His		
				85					90					95			
Ser	Ala	Leu	Ile	Thr	Ser	Val	Val	Pro	Gly	Asp	Tyr	Asp	Gly	Asp	Ser		
			100					105					110				
Gln	Met	Asp	Val	Leu	Leu	Thr	Tyr	Leu	Pro	Lys	Asn	Tyr	Ala	Lys	Ser		
		115					120					125					
Glu	Leu	Gly	Ala	Val	Ile	Phe	Trp	Gly	Gln	Asn	Gln	Thr	Leu	Asp	Pro		
	130					135					140						
Asn	Asn	Met	Thr	Ile	Leu	Asn	Arg	Thr	Phe	Gln	Asp	Glu	Pro	Leu	Ile		
145					150					155					160		
Met	Asp	Phe	Asn	Gly	Asp	Leu	Ile	Pro	Asp	Ile	Phe	Gly	Ile	Thr	Asn		
				165					170					175			
Glu	Ser	Asn	Gln	Pro	Gln	Ile	Leu	Leu	Gly	Gly	Asn	Leu	Ser	Trp	His		
			180					185					190				
Pro	Ala	Leu	Thr	Thr	Thr	Ser	Lys	Met	Arg	Ile	Pro	His	Ser	His	Ala		
		195					200					205					
Phe	Ile	Asp	Leu	Thr	Glu	Asp	Phe	Thr	Ala	Asp	Leu	Phe	Leu	Thr	Thr		
	210					215					220						
Leu	Asn	Ala	Thr	Thr	Ser	Thr	Phe	Gln	Phe	Glu	Ile	Trp	Glu	Asn	Leu		
225					230					235					240		
Asp	Gly	Asn	Phe	Xaa	Xaa	Ser	Thr	Xaa	Leu	Glu	Lys	Pro	Gln	Asn	Met		
				245					250					255			
Met	Val	Val	Gly	Gln	Ser	Ala	Phe	Ala	Asp	Phe	Asp	Gly	Asp	Gly	His		
			260					265					270				
Met	Asp	His	Leu	Leu	Pro	Gly	Cys	Glu	Asp	Lys	Asn	Cys	Gln	Lys	Ser		
		275					280					285					
Thr	Ile	Tyr	Leu	Val	Arg	Ser	Gly	Met	Lys	Gln	Trp	Val	Pro	Val	Leu		
	290					295					300						
Gln	Asp	Phe	Ser	Asn	Lys	Gly	Thr	Leu	Trp	Gly	Phe	Val	Pro	Phe	Val		
305					310					315					320		
Asp	Glu	Gln	Gln	Pro	Thr	Glu	Ile	Pro	Ile	Pro	Ile	Thr	Leu	His	Ile		
				325					330					335			
Gly	Asp	Tyr	Asn	Met	Asp	Gly	Tyr	Pro	Asp	Ala	Leu	Val	Ile	Leu	Lys		
			340					345					350				
Asn	Thr	Ser	Gly	Ser	Asn	Gln	Gln	Ala	Phe	Leu	Leu	Glu	Asn	Val	Pro		
		355					360					365					
Cys	Asn	Asn	Ala	Ser	Cys	Glu	Glu	Ala	Arg	Arg	Met	Phe	Lys	Val	Tyr		
	370					375					380						

Trp Glu Leu Thr Asp Leu Asn Gln Ile Lys Asp Ala Met Val Ala Thr
 385 390 395 400
 Phe Phe Asp Ile Tyr Glu Asp Gly Ile Leu Asp Ile Val Val Leu Ser
 405 410 415
 Lys Gly Tyr Thr Lys Asn Asp Phe Ala Ile His Thr Leu Lys Asn Asn
 420 425 430
 Phe Glu Ala Asp Ala Tyr Phe Val Lys Val Ile Val Leu Ser Gly Leu
 435 440 445
 Cys Ser Asn Asp Cys Pro Arg Lys Ile Thr Pro Phe Gly Val Asn Gln
 450 455 460
 Pro Gly Pro Tyr Ile Met Tyr Thr Thr Val Asp Ala Asn Gly Tyr Leu
 465 470 475 480
 Lys Asn Gly Ser Ala Gly Gln Leu Ser Gln Ser Ala His Leu Ala Leu
 485 490 495
 Gln Leu Pro Tyr Asn Val Leu Gly Leu Gly Arg Ser Ala Asn Phe Leu
 500 505 510
 Asp His Leu Tyr Val Gly Ile Pro Arg Pro Ser Gly Glu Lys Ser Ile
 515 520 525
 Arg Lys Gln Glu Trp Thr Ala Ile Ile Pro Asn Ser Gln Leu Ile Val
 530 535 540
 Ile Pro Tyr Pro His Asn Val Pro Arg Ser Trp Ser Ala Lys Leu Tyr
 545 550 555 560
 Leu Thr Pro Ser Asn Ile Val Leu Leu Thr Ala Ile Ala Leu Ile Gly
 565 570 575
 Val Cys Val Phe Ile Leu Ala Ile Ile Gly Ile Leu His Trp Gln Glu
 580 585 590
 Lys Lys Ala Asp Asp Arg Glu Lys Arg Gln Glu Ala His Arg Phe His
 595 600 605
 Phe Asp Ala Met
 610

<210> 1615
 <211> 456
 <212> PRT
 <213> Homo sapiens

<400> 1615
 Met Ala Ala Ala Gly Arg Leu Pro Ser Ser Trp Ala Leu Phe Ser Pro
 1 5 10 15
 Leu Leu Ala Gly Leu Ala Leu Leu Gly Val Gly Pro Val Pro Ala Arg

20					25					30					
Ala	Leu	His	Asn	Val	Thr	Ala	Glu	Leu	Phe	Gly	Ala	Glu	Ala	Trp	Gly
		35					40					45			
Thr	Leu	Ala	Ala	Phe	Gly	Asp	Leu	Asn	Ser	Asp	Lys	Gln	Thr	Asp	Leu
	50					55					60				
Phe	Val	Leu	Arg	Glu	Arg	Asn	Asp	Leu	Ile	Val	Phe	Leu	Ala	Asp	Gln
	65				70					75					80
Asn	Ala	Pro	Tyr	Phe	Lys	Pro	Lys	Val	Lys	Val	Ser	Phe	Lys	Asn	His
				85					90					95	
Ser	Ala	Leu	Ile	Thr	Ser	Val	Val	Pro	Gly	Asp	Tyr	Asp	Gly	Asp	Ser
			100					105					110		
Gln	Met	Asp	Val	Leu	Leu	Thr	Tyr	Leu	Pro	Lys	Asn	Tyr	Ala	Lys	Ser
		115					120					125			
Glu	Leu	Gly	Ala	Val	Ile	Phe	Trp	Gly	Gln	Asn	Gln	Thr	Leu	Asp	Pro
	130					135					140				
Asn	Asn	Met	Thr	Ile	Leu	Asn	Arg	Thr	Phe	Gln	Asp	Glu	Pro	Leu	Ile
	145				150					15					160
Met	Asp	Phe	Asn	Gly	Asp	Leu	Ile	Pro	Asp	Ile	Phe	Gly	Ile	Thr	Asn
				165					170					175	
Glu	Ser	Asn	Gln	Pro	Gln	Ile	Leu	Leu	Gly	Gly	Asn	Leu	Ser	Trp	His
			180					185					190		
Pro	Ala	Leu	Thr	Thr	Thr	Ser	Lys	Met	Arg	Ile	Pro	His	Ser	His	Ala
		195					200					205			
Phe	Ile	Asp	Leu	Thr	Glu	Asp	Phe	Thr	Ala	Asp	Leu	Phe	Leu	Thr	Thr
	210					215					220				
Leu	Asn	Ala	Thr	Thr	Ser	Thr	Phe	Gln	Phe	Glu	Ile	Trp	Glu	Asn	Leu
	225				230					235					240
Asp	Gly	Asn	Phe	Ser	Val	Ser	Thr	Ile	Leu	Glu	Lys	Pro	Gln	Asn	Met
				245					250					25	
Met	Val	Val	Gly	Gln	Ser	Ala	Phe	Ala	Asp	Phe	Asp	Gly	Asp	Gly	His
			260					265					270		
Met	Asp	His	Leu	Leu	Pro	Gly	Cys	Glu	Asp	Lys	Asn	Cys	Gln	Lys	Ser
		275					280					285			
Thr	Ile	Tyr	Leu	Val	Arg	Ser	Gly	Met	Lys	Gln	Trp	Val	Pro	Val	Leu
	290					295					300				
Gln	Asp	Phe	Ser	Asn	Lys	Gly	Thr	Leu	Trp	Gly	Phe	Val	Pro	Phe	Val
	305				310					315					320
Asp	Glu	Gln	Gln	Pro	Thr	Glu	Ile	Pro	Ile	Pro	Ile	Thr	Leu	His	Ile

	325		330		335
Gly Asp Tyr Asn Met Asp Gly Tyr Pro Asp Ala Leu Val Ile Leu Lys					
	340		345		350
Asn Thr Ser Gly Ser Asn Gln Gln Ala Phe Leu Leu Glu Asn Val Pro					
	355		360		365
Cys Asn Asn Ala Ser Cys Glu Glu Ala Arg Arg Met Phe Lys Val Tyr					
	370		375		380
Trp Glu Leu Thr Asp Leu Asn Gln Ile Lys Asp Ala Met Val Ala Thr					
	385		390		395
Phe Phe Asp Ile Tyr Glu Asp Gly Ile Leu Asp Ile Val Val Leu Ser					
	405		410		415
Lys Gly Tyr Thr Lys Asn Asp Phe Ala Ile His Thr Leu Lys Asn Asn					
	420		425		430
Phe Glu Ala Asp Ala Tyr Phe Val Lys Val Ile Val Leu Ser Gly Leu					
	435		440		445
Cys Ser Asn Asp Cys Pro Arg Arg					
	450		455		

<210> 1616
 <211> 264
 <212> PRT
 <213> Homo sapiens

<400> 1616
 Met Pro Phe Arg Leu Leu Ile Pro Leu Gly Leu Leu Cys Ala Leu Leu
 1 5 10 15
 Pro Gln His His Gly Ala Pro Gly Pro Asp Gly Ser Ala Pro Asp Pro
 20 25 30
 Ala His Tyr Arg Glu Arg Val Lys Ala Met Phe Tyr His Ala Tyr Asp
 35 40 45
 Ser Tyr Leu Glu Asn Ala Phe Pro Phe Asp Glu Leu Arg Pro Leu Thr
 50 55 60
 Cys Asp Gly His Asp Thr Trp Gly Ser Phe Ser Leu Thr Leu Ile Asp
 65 70 75 80
 Ala Leu Asp Thr Leu Leu Ile Leu Gly Asn Val Ser Glu Phe Gln Arg
 85 90 95
 Val Val Glu Val Leu Gln Asp Ser Val Asp Phe Asp Ile Asp Val Asn
 100 105 110
 Ala Ser Val Phe Glu Thr Asn Ile Arg Val Val Gly Gly Leu Leu Se
 115 120 125

Ala His Leu Leu Ser Lys Lys Ala Gly Val Glu Val Glu Ala Gly Trp
 130 135 140
 Pro Cys Ser Gly Pro Leu Leu Arg Met Ala Glu Glu Ala Ala Arg Lys
 145 150 155 160
 Leu Leu Pro Ala Phe Gln Thr Pro Thr Gly Met Pro Tyr Gly Thr Val
 165 170 175
 Asn Leu Leu His Gly Val Asn Pro Gly Glu Thr Pro Val Thr Cys Thr
 180 185 190
 Ala Gly Ile Gly Thr Phe Ile Val Glu Phe Ala Thr Leu Ser Ser Leu
 195 200 205
 Thr Gly Asp Pro Val Phe Glu Asp Val Ala Arg Val Ala Leu Met Arg
 210 215 220
 Leu Trp Glu Ser Arg Ser Asp Ile Gly Leu Val Gly Asn His Ile Asp
 225 230 235 240
 Val Leu Thr Gly Lys Gly Trp Pro Arg Thr Gln Ala Ser Gly Leu Ala
 245 250 255
 Trp Thr Pro Thr Leu Ser Thr Trp
 260

<210> 1617
 <211> 316
 <212> PRT
 <213> Homo sapiens

<400> 1617
 Met Leu Arg Arg Arg Gly Ser Pro Gly Met Gly Val His Val Gly Ala
 1 5 10 15
 Ala Leu Gly Ala Leu Trp Phe Cys Leu Thr Gly Ala Leu Glu Val Gln
 20 25 30
 Val Pro Glu Asp Pro Val Val Ala Leu Val Gly Thr Asp Ala Thr Leu
 35 40 45
 Cys Cys Ser Phe Ser Pro Glu Pro Gly Phe Ser Leu Ala Gln Leu Asn
 50 55 60
 Leu Ile Trp Gln Leu Thr Asp Thr Lys Gln Leu Val His Ser Phe Ala
 65 70 75 80
 Glu Gly Gln Asp Gln Gly Ser Ala Tyr Ala Asn Arg Thr Ala Leu Phe
 85 90 95
 Pro Asp Leu Leu Ala Gln Gly Asn Ala Ser Leu Arg Leu Gln Arg Val
 100 105 110

Arg Val Ala Asp Glu Gly Ser Phe Thr Cys Phe Val Ser Ile Arg Asp
 115 120 125
 Phe Gly Ser Ala Ala Val Ser Leu Gln Val Ala Ala Pro Tyr Ser Lys
 130 135 140
 Pro Ser Met Thr Leu Glu Pro Asn Lys Asp Leu Arg Pro Gly Asp Thr
 145 150 155 160
 Val Thr Ile Thr Cys Ser Ser Tyr Gln Gly Tyr Pro Glu Ala Glu Val
 165 170 175
 Phe Trp Gln Asp Gly Gln Gly Val Pro Leu Thr Gly Asn Val Thr Thr
 180 185 190
 Ser Gln Met Ala Asn Glu Gln Gly Leu Phe Asp Val His Ser Ile Leu
 195 200 205
 Arg Val Val Leu Gly Ala Asn Gly Thr Tyr Ser Cys Leu Val Arg Asn
 210 215 220
 Pro Val Leu Gln Gln Asp Ala His Ser Ser Val Thr Ile Thr Gly Gln
 225 230 235 240
 Pro Met Thr Phe Pro Pro Glu Ala Leu Trp Val Thr Val Gly Leu Ser
 245 250 255
 Val Cys Leu Ile Ala Leu Leu Val Ala Leu Ala Phe Val Cys Trp Arg
 260 265 270
 Lys Ile Lys Gln Ser Cys Glu Glu Glu Asn Ala Gly Ala Glu Asp Gln
 275 280 285
 Asp Gly Glu Gly Glu Gly Ser Lys Thr Ala Leu Gln Pro Leu Lys His
 290 295 300
 Ser Asp Ser Lys Glu Asp Asp Gly Gln Glu Ile Ala
 305 310 315

<210> 1618

<211> 302

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1618

Met Arg Leu Gly Ser Pro Gly Leu Leu Phe Leu LeuPhe Ser Ser Leu
 1 5 10 15

Arg Ala Asp Thr Gln Glu Lys Glu Val Arg Ala Met Val Gly Ser Asp
 20 25 30

Val Glu Leu Ser Cys Ala Cys Pro Glu Gly Ser Arg PheAsp Leu Asn
 35 40 45
 Asp Val Tyr Val Tyr Trp Gln Thr Ser Glu Ser Lys Thr Val Val Thr
 50 55 60
 Tyr His Ile Pro Gln Asn Ser Ser Leu Glu Asn Val Asp Ser Arg Tyr
 65 70 75 80
 Arg Asn Arg Ala Leu Met Ser Pro Ala Gly Met Leu Arg Gly Asp Phe
 85 90 95
 Ser Leu Arg Leu Phe Asn Val Thr Pro Gln Asp Glu Gln Lys Phe His
 100 105 110
 Cys Leu Val Leu Ser Gln Ser Leu Gly Phe Gln Glu Val Leu Ser Xaa
 115 120 125
 Glu Val Thr Leu His Val Ala Ala Asn Phe Ser Val Pro Val Val Ser
 130 135 140
 Ala Pro His Ser Pro Ser Gln Asp Glu Leu Thr Phe Thr Cys Thr Ser
 145 150 155 160
 Ile Asn Gly Tyr Pro Arg Pro Asn Val Tyr Trp Ile Asn Lys Thr Asp
 165 170 175
 Asn Ser Leu Leu Asp Gln Ala Leu Gln Asn Asp Thr Val Phe Leu Asn
 180 185 190
 Met Arg Gly Leu Tyr Asp Val Val Ser Val Leu Arg Ile Ala Arg Thr
 195 200 205
 Pro Ser Val Asn Ile Gly Cys Cys Ile Glu Asn Val Leu Leu Gln Gln
 210 215 220
 Asn Leu Thr Val Gly Ser Gln Thr Gly Asn Asp Ile Gly Glu Arg Asp
 225 230 235 240
 Lys Ile Thr Glu Asn Pro Val Ser Thr Gly Glu Lys Asn Ala Ala Thr
 245 250 255
 Trp Ser Ile Leu Ala Val Leu Cys Leu Leu Val Val Val Ala Val Ala
 260 265 270
 Ile Gly Trp Val Cys Arg Asp Arg Cys Leu Gln His Ser Tyr Ala Gly
 275 280 285
 Ala Trp Ala Val Ser Pro Glu Thr Glu Leu Thr Gly His Val
 290 295 300

<210> 1619
 <211> 109
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1619

Met	Asn	Thr	Leu	Val	Leu	Trp	Ile	Phe	Gly	Phe	Leu	Ile	Cys	Leu	Gly
1				5					10					15	
Ile	Ile	Leu	Ala	Ile	Gly	Asn	Ser	Ile	Trp	Glu	Ser	Gln	Thr	Gly	Asp
		20						25					30		
Gln	Phe	Arg	Thr	Phe	Leu	Phe	Trp	Asn	Glu	Gly	Glu	Lys	Ser	Ser	Val
		35					40					45			
Phe	Ser	Gly	Phe	Leu	Thr	Phe	Trp	Ser	Tyr	Ile	Ile	Ile	Leu	Asn	Thr
	50					55					60				
Val	Val	Pro	Ile	Ser	Leu	Tyr	Val	Ser	Val	Glu	Val	Ile	Arg	Leu	Gly
65					70					75				80	
His	Ser	Tyr	Phe	Ile	Asn	Trp	Asp	Arg	Lys	Met	Tyr	Tyr	Xaa	Arg	Lys
				85					90					95	
Ala	Ile	Pro	Ala	Val	Ala	Arg	Thr	Thr	Thr	Leu	Asn	Glu			
			100					105							

<210> 1620

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1620

Ile	Asn	His	Val	Phe	Ile	Trp	Gly	Ser	Ile	Ala	Ile	Tyr	Phe	Ser	Ile
1				5					10					15	
Leu	Phe	Thr	Met	His	Ser	Asn	Gly	Ile	Phe	Gly	Ile	Phe	Pro	Asn	Gln
			20					25					30		
Phe	Pro	Phe	Val	Gly	Asn	Ala	Arg	His	Ser	Leu	Thr	Xaa	Lys		
		35					40					45			

<210> 1621

<211> 6

<212> PRT

<213> Homo sapiens

<400> 1621
Thr Val Ala Ile Tyr Asp
1 5

<210> 1622
<211> 11
<212> PRT
<213> Homo sapiens

<400> 1622
Phe Leu Val Cys Leu Leu Leu Gly Pro Arg Ser
1 5 10

<210> 1623
<211> 56
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring amino acids

<400> 1623
Lys Ser Gln Met Gln Ser Phe Thr Ile Val Thr Ala Tyr Gly Arg Cys
1 5 10 15
Leu Ser Leu Thr Cys Leu Pro Thr Leu Asn Gln Met Leu Val Phe Lys
20 25 30
Ser Asn Xaa Ser Leu Val Ser Pro His Xaa Leu Thr Phe Xaa Asn Ile
35 40 45
Phe Ala Arg Phe Glu Asn Phe Gln
50 55

<210> 1624
<211> 53
<212> PRT
<213> Homo sapiens

<400> 1624

Asn Tyr Asn Arg Gly Gly Thr Phe Leu Tyr Gln Lys Ala Lys Ile Lys
1 5 10 15
His His Val Leu Met Val Phe Tyr Lys Ser Thr Ser Asn Ser Thr Glu
20 25 30
Ser Leu Ile Trp Ser Leu Leu Asn Ser Trp Ser Asp Lys Val Thr Phe
35 40 45
Pro Lys Arg Val Arg
50

<210> 1625

<211> 566

<212> PRT

<213> Homo sapiens

<400> 1625

Met Ala Pro Leu Ala Leu His Leu Leu Val Leu Val Pro Ile Leu Leu
1 5 10 15
Ser Leu Val Ala Ser Gln Asp Trp Lys Ala Glu Arg Ser Gln Asp Pro
20 25 30
Phe Glu Lys Cys Met Gln Asp Pro Asp Tyr Glu Gln Leu Leu Lys Val
35 40 45
Val Thr Trp Gly Leu Asn Arg Thr Leu Lys Pro Gln Arg Val Ile Val
50 55 60
Val Gly Ala Gly Val Ala Gly Leu Val Ala Ala Lys Val Leu Ser Asp
65 70 75 80
Ala Gly His Lys Val Thr Ile Leu Glu Ala Asp Asn Arg Ile Gly Gly
85 90 95
Arg Ile Phe Thr Tyr Arg Asp Gln Asn Thr Gly Trp Ile Gly Glu Leu
100 105 110
Gly Ala Met Arg Met Pro Ser Ser His Arg Ile Leu His Lys Leu Cys
115 120 125
Gln Gly Leu Gly Leu Asn Leu Thr Lys Phe Thr Gln Tyr Asp Lys Asn
130 135 140
Thr Trp Thr Glu Val His Glu Val Lys Leu Arg Asn Tyr Val Val Glu
145 150 155 160
Lys Val Pro Glu Lys Leu Gly Tyr Ala Leu Arg Pro Gln Glu Lys Gly
165 170 175
His Ser Pro Glu Asp Ile Tyr Gln Met Ala Leu Asn Gln Ala Leu Lys
180 185 190

Asp Leu Lys Ala Leu Gly Cys Arg Lys Ala Met Lys Lys Phe Glu Arg
 195 200 205
 His Thr Leu Leu Glu Tyr Leu Leu Gly Glu Gly Asn Leu Ser Arg Pro
 210 215 220
 Ala Val Gln Leu Leu Gly Asp Val Met Ser Glu Asp Gly Phe Phe Tyr
 225 230 235 240
 Leu Ser Phe Ala Glu Ala Leu Arg Ala His Ser Cys Leu Ser Asp Arg
 245 250 255
 Leu Gln Tyr Ser Arg Ile Val Gly Gly Trp Asp Leu Leu Pro Arg Ala
 260 265 270
 Leu Leu Ser Ser Leu Ser Gly Leu Val Leu Leu Asn Ala Pro Val Val
 275 280 285
 Ala Met Thr Gln Gly Pro His Asp Val His Val Gln Ile Glu Thr Ser
 290 295 300
 Pro Pro Ala Arg Asn Leu Lys Val Leu Lys Ala Asp Val Val Leu Leu
 305 310 315 320
 Thr Ala Ser Gly Pro Ala Val Lys Arg Ile Thr Phe Ser Pro Pro Leu
 325 330 335
 Pro Arg His Met Gln Glu Ala Leu Arg Arg Leu His Tyr Val Pro Ala
 340 345 350
 Thr Lys Val Phe Leu Ser Phe Arg Arg Pro Phe Trp Arg Glu Glu His
 355 360 365
 Ile Glu Gly Gly His Ser Asn Thr Asp Arg Pro Ser Arg Met Ile Phe
 370 375 380
 Tyr Pro Pro Pro Arg Glu Gly Ala Leu Leu Leu Ala Ser Tyr Thr Trp
 385 390 395 400
 Ser Asp Ala Ala Ala Ala Phe Ala Gly Leu Ser Arg Glu Glu Ala Leu
 405 410 415
 Arg Leu Ala Leu Asp Asp Val Ala Ala Leu His Gly Pro Val Val Arg
 420 425 430
 Gln Leu Trp Asp Gly Thr Gly Val Val Lys Arg Trp Ala Glu Asp Gln
 435 440 445
 His Ser Gln Gly Gly Phe Val Val Gln Pro Pro Ala Leu Trp Gln Thr
 450 455 460
 Glu Lys Asp Asp Trp Thr Val Pro Tyr Gly Arg Ile Tyr Phe Ala Gly
 465 470 475 480
 Glu His Thr Ala Tyr Pro His Gly Trp Val Glu Thr Ala Val Lys Leu
 485 490 495

Leu Arg Ala Ala Ile Lys Ile Asn Ser Arg Lys Gly Pro Ala Ser Asp
 500 505 510
 Thr Ala Ser Pro Glu Gly His Ala Ser Asp Met Glu Gly Gln Gly His
 515 520 525
 Val His Gly Val Ala Ser Ser Pro Ser His Asp Leu Ala Lys Glu Glu
 530 535 540
 Gly Ser His Pro Pro Val Gln Gly Gln Leu Ser Leu Gln Asn Thr Thr
 545 550 555 560
 His Thr Arg Thr Ser His
 565

<210> 1626

<211> 319

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (213)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1626

Met Ala Pro Leu Ala Leu His LeuLeu Val Leu Val Pro Ile Leu Leu
 1 5 10 15

Ser Leu Val Ala Ser Gln Asp Trp Lys Ala Glu Arg Ser Gln Asp Pro
 20 25 30

Phe Glu Lys Cys Met Gln Asp Pro AspTyr Glu Gln Leu Leu Lys Val
 35 40 45

Thr Ile Leu Glu Ala Asp Asn Arg Ile Gly Gly Arg Ile Phe Thr Tyr
 50 55 60

Arg Asp Gln Xaa Thr Gly Trp Ile Gly Glu Leu Gly Ala MetArg Met
 65 70 75 80

Pro Ser Ser His Arg Ile Leu His Lys Leu Cys Gln Gly Leu Gly Leu
 85 90 95

Asn Leu Thr Lys Phe Thr Gln Tyr Asp Lys Asn Thr TrpThr Glu Val
 100 105 110
 His Glu Xaa Lys Leu Arg Asn Tyr Val Val Glu Lys Val Pro Glu Lys
 115 120 125
 Leu Gly Tyr Ala Leu Arg Pro Gln Glu Lys Gly His Ser Pro Glu Asp
 130 135 140
 Ile Tyr Gln Met Ala Leu Asn Gln Ala Leu Lys Asp Leu Lys Ala Leu
 145 150 155 160
 Gly Cys Arg Lys Ala Met Lys Lys Phe Glu Arg His Thr Leu Leu Glu
 165 170 175
 Tyr Leu Leu Gly Glu Gly Asn Leu Ser Arg Pro Ala Val Gln Leu Leu
 180 185 190
 Gly Asp Val Met Ser Glu Asp Gly Phe Phe Tyr Leu Ser Phe Ala Glu
 195 200 205
 Ala Leu Arg Ala Xaa Ser Cys Leu Ser Asp Arg Leu Gln Tyr Ser Arg
 210 215 220
 Ile Val Gly Gly Trp Asp Leu Leu Pro Arg Ala Leu Leu Ser Ser Leu
 225 230 235 240
 Ser Gly Leu Val Leu Leu Asn Ala Pro Val Val Ala Met Thr Gln Gly
 245 250 255
 Pro His Asp Val His Val Gln Ile Glu Thr Ser Pro Pro Ala Arg Asn
 260 265 270
 Leu Lys Val Leu Lys Ala Asp Val Val Leu Leu Thr Ala Ser Gly Pro
 275 280 285
 Ala Val Lys Arg Ile Thr Phe Ser Pro Arg Cys Pro Ala Thr Cys Arg
 290 295 300
 Arg Arg Cys Gly Gly Cys Thr Thr Cys Arg Pro Pro Arg Cys Ser
 305 310 315

<210> 1627

<211> 55

<212> PRT

<213> Homo sapiens

<400> 1627

Met Ser Ser Asp Phe Leu Cys Phe Phe Phe Lys Leu Cys Asn Gln Met
 1 5 10 15
 Ile Leu Cys Phe Phe Phe Arg Gly Ala Glu Tyr Trp Phe Leu Leu Leu
 20 25 30
 Val Val Phe Ser Phe Leu Cys His Ser Cys Phe Phe Phe Val Phe Ser

35 40 45
 Val Ser Asn Thr Ile Cys Ile
 50 55

<210> 1628
 <211> 99
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (91)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1628
 Met Ala Ala Leu Leu Leu Leu Pro Leu Leu Leu Leu Pro Leu Leu
 1 5 10 15
 Leu Leu Lys Leu His Leu Trp Pro Gln Leu Arg Trp Leu Pro Ala Asp
 20 25 30
 Leu Ala Phe Ala Val Arg Ala Leu Cys Cys Lys Arg Ala Leu Arg Ala
 35 40 45
 Arg Ala Leu Ala Ala Ala Ala Ala Asp Pro Glu Gly Pro Glu Gly Gly
 50 55 60
 Cys Ser Leu Ala Trp Arg Leu Ala Glu Leu Ala Gln Gln Arg Ala Glu
 65 70 75 80
 Leu Leu Leu Arg Ser Arg Ala Leu Ala Thr Xaa Arg Arg Ser Ala Arg
 85 90 9

Val Thr Gly

<210> 1629
 <211> 214
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (199)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (206)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>

<221> SITE
 <222> (214)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 1629
 Met Leu Gly Ala Arg Ala Trp Leu Gly Arg Val Leu Leu Leu Pro Arg
 1 5 10 15
 Ala Gly Ala Gly Leu Ala Ala Ser Arg Arg Cys Pro Gly Val Trp Pro
 20 25 30
 Arg Thr Trp Pro His Arg Ser Pro Ser Arg Gly Ser Ser Ser Arg Asp
 35 40 45
 Lys Asp Arg Ser Ala Thr Val Ser Ser Ser Val Pro Met Pro Ala Gly
 50 55 60
 Gly Lys Gly Ser His Pro Ser Ser Thr Pro Gln Arg Val Pro Asn Arg
 65 70 75 80
 Leu Ile His Glu Lys Ser Pro Tyr Leu Leu Gln His Ala Tyr Asn Pro
 85 90 95
 Val Asp Trp Tyr Pro Trp Gly Gln Glu Ala Phe Asp Lys Ala Arg Lys
 100 105 110
 Glu Asn Lys Pro Ile Phe Leu Ser Val Gly Tyr Ser Thr Cys His Trp
 115 120 125
 Cys His Met Met Glu Glu Glu Ser Phe Gln Asn Glu Glu Ile Gly Arg
 130 135 140
 Leu Leu Ser Glu Asp Phe Val Ser Val Lys Val Asp Arg Glu Glu Arg
 145 150 155 160
 Pro Asp Val Asp Lys Val Tyr Met Thr Phe Val Gln Ala Thr Ser Ser
 165 170 175
 Gly Gly Gly Trp Pro Met Asn Val Trp Leu Thr Pro Asn Leu Gln Pro
 180 185 190
 Phe Val Gly Gly Thr Ile Xaa Leu Leu Lys Asp Gly Leu Xaa Arg Val
 195 200 205
 Gly Ser Ala Gln Cys Xaa
 210

<210> 1630
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 1630
 Met Leu Gly Ala Arg Ala Trp Leu Gly Arg Val Leu Leu Leu Pro Arg
 1 5 10 15

Ala Gly Ala Gly Leu Ala Ala Ser Arg Arg Ser Ala Cys Ser Pro Thr
 20 25 30

Ser Arg Leu Asn Ser Leu Arg Ser Leu Ile Pro
 35 40

<210> 1631
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 1631
 Met Asp Leu Tyr Phe Phe Leu Leu Ala Gly Ile Gln Ala Val Thr Ala
 1 5 10 15

Leu Leu Phe Val Trp Ile Ala Gly Arg Tyr Glu Arg Ala Ser Gln Gly
 20 25 30

Pro Ala Ser His Ser Arg Phe Ser Arg Asp Arg Gly
 35 40

<210> 1632
 <211> 333
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (100)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (111)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (227)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1632
 Met Leu Thr Gly Ile Ala Val Gly Ala Leu Leu Ala Leu Ala Leu Val
 1 5 10 15

Gly Val Leu Ile Leu Phe Met Phe Arg Arg Leu Arg Gln Phe Arg Gln
 20 25 30

Ala Gln Pro Thr Pro Gln Tyr Arg Phe Arg Lys Arg Asp Lys Val Met
 35 40 45

Phe Tyr Gly Arg Lys Ile Met Arg Lys Val Thr Thr Leu Pro Asn Thr

50	55	60
Leu Val Glu Asn Thr Ala Leu Pro Arg Gln Arg Ala Arg Lys Arg Thr 65 70 75 80		
Lys Val Leu Ser Leu Ala Lys Arg Ile Leu Arg Phe Lys Lys Glu Tyr 85 90 95		
Pro Gly Leu Xaa Pro Lys Asp Pro Arg Pro Ser Leu Leu Glu Xaa Asp 100 105 110		
Phe Thr Glu Phe Asp Val Lys Asn Ser His Leu Pro Ser Glu Val Leu 115 120 125		
Tyr Met Leu Lys Asn Val Arg Val Leu Gly His Phe Glu Lys Pro Leu 130 135 140		
Phe Leu Glu Leu Cys Lys His Ile Val Phe Val Gln Leu Gln Glu Gly 145 150 155 160		
Glu His Val Phe Gln Pro Arg Glu Pro Asp Pro Ser Ile Cys Val Val 165 170 175		
Gln Asp Gly Arg Leu Glu Val Cys Ile Gln Asp Thr Asp Gly Thr Glu 180 185 190		
Val Val Val Lys Glu Val Leu Ala Gly Asp Ser Val His Ser Leu Leu 195 200 205		
Ser Ile Leu Asp Ile Ile Thr Gly His Ala Ala Pro Tyr Lys Thr Val 210 215 220		
Ser Val Xaa Ala Ala Ile Pro Ser Thr Ile Leu Arg Leu Pro Ala Ala 225 230 235 240		
Ala Phe His Gly Val Phe Glu Lys Tyr Pro Glu Thr Le Val Arg Val 245 250 255		
Val Gln Ile Ile Met Val Arg Leu Gln Arg Val Thr Phe Leu Ala Leu 260 265 270		
His Asn Tyr Leu Gly Leu Thr Thr Glu Leu Phe Asn Ala Glu Ser Gln 275 280 285		
Ala Ile Pro Leu Val Ser Val Ala Ser Val Ala Ala Gly Lys Ala Lys 290 295 300		
Lys Gln Val Phe Tyr Gly Glu Glu Glu Arg Leu Lys Lys Pro Pro Arg 305 310 315 320		
Leu Gln Glu Ser Cys Asp Ser Asp His Gly Gly Gly Arg 325 330		

<210> 1633
<211> 365

<212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (144)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (201)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1633
 Met Phe Val Gly Leu Met Ala Phe Leu Leu Ser Phe Tyr Leu Ile Phe
 1 5 10 15
 Thr Asn Glu Gly Arg Ala Leu Lys Thr Ala Thr Ser Leu Ala Glu Gly
 20 25 30
 Leu Ser Leu Val Val Ser Pro Asp Ser Ile His Ser Val Ala Pro Glu
 35 40 45
 Asn Glu Gly Arg Leu Val His Ile Ile Gly Ala Leu Arg Thr Ser Lys
 50 55 60
 Leu Leu Ser Asp Pro Asn Tyr Gly Val His Leu Pro Ala Val Lys Leu
 65 70 75 80
 Arg Arg His Val Glu Met Tyr Gln Trp Val Glu Thr Glu Glu Ser Arg
 85 90 95
 Glu Tyr Thr Glu Asp Gly Gln Val Lys Lys Glu Thr Arg Tyr Ser Tyr
 100 105 110
 Asn Thr Glu Trp Arg Ser Glu Ile Ile Asn Ser Lys Asn Phe Asp Arg
 115 120 125
 Glu Ile Gly His Lys Asn Pro Ser Ala Met Ala Val Glu Ser Phe Xaa
 130 135 140
 Ala Thr Ala Pro Phe Val Gln Ile Gly Arg Phe Phe Leu Ser Ser Gly
 145 150 155 160
 Leu Ile Asp Lys Val Asp Asn Phe Lys Ser Leu Ser Leu Ser Lys Leu
 165 170 175
 Glu Asp Pro His Val Asp Ile Ile Arg Arg Gly Asp Phe Phe Tyr His
 180 185 190
 Ser Glu Asn Pro Lys Tyr Pro Glu Xaa Gly Asp Leu Arg Val Ser Phe
 195 200 205
 Ser Tyr Ala Gly Leu Ser Gly Asp Asp Pro Asp Leu Gly Pro Ala His
 210 215 220
 Val Val Thr Val Ile Ala Arg Gln Arg Gly Asp Gln Leu Val Pro Phe

Thr Gln Leu Asn Val Pro Pro Leu Pro Pro Arg Gly Phe Pro Phe Val
 100 105 110
 Pro Pro Ser Arg Phe Phe Ser Ala Ala Ala Ala Pro Aa Ala Pro Pro
 115 120 125
 Ile Ala Ala Glu Pro Ala Ala Ala Ala Pro Leu Thr Ala Thr Pro Val
 130 135 140
 Ala Ala Glu Pro Ala Ala Arg Gly Pro Val Ala Ala Glu Pro Xaa Gly
 145 150 155 160
 Arg Gly His Leu Leu Glu Leu Glu Pro Ala Ala Glu Ala Pro Val Ala
 165 170 175
 Ala Glu Pro Ala Ala Glu Ala Pro Val Gly Val Glu Pro Ala Ala Glu
 180 185 190
 Glu Pro Ser Pro Ala Glu Pro Ala Thr Ala Lys Pro Ala Ala Pro Glu
 195 200 205
 Pro His Pro Ser Pro Ser Leu Glu Gln Ala Asn Gln
 210 215 220

<210> 1635
 <211> 108
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (48)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (55)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (58)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (67)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1635
 Met Phe Tyr Lys Leu Thr Leu Ile Leu Cys Glu Leu Ser Val Ala Gly
 1 5 10 15
 Val Thr Gln Ala Ala Ser Gln Arg Pro Leu Gln Arg Leu Pro Arg His
 20 25 30

Ile Cys Ser Gln Arg Asn Pro Pro GlyArg Cys Leu Leu Lys Ala Xaa
35 40 45

Leu Gln Thr Thr Trp Gly Xaa Pro Asp Xaa Gln Phe Pro Gly Cys Pro
50 55 60

His Pro Xaa Arg Val Thr Leu Asn Ala Arg Gln Met Gly AsnGly Lys
65 70 75 80

Glu Lys Lys Ala Ala Asp Leu Lys Leu Lys Phe Pro Gln Lys Arg Phe
85 90 95

Tyr Leu Ser Ala Phe Ser Glu Arg Ile Lys Ala Phe
100 105

<210> 1636

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1636

Met Phe Tyr Lys Leu Thr Leu Ile Leu Cys Glu Leu Ser Val Ala Gly
1 5 10 15

Val Thr Gln Ala Ala Ser Gln Arg Pro Leu Gln Arg LeuPro Arg His
20 25 30

Ile Cys Ser Gln Arg Xaa Pro Pro Gly Arg Cys Leu Leu Lys Ala Xaa
35 40 45

Leu Gln Thr Thr Trp Xaa Xaa Pro Asp Lys Pro Ile Pro Arg Leu Ser
 50 55 60

Pro Pro Leu Xaa Ser Asp Pro Lys Arg
 65 70

<210> 1637
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 1637
 Met Asp Arg Gly Val Met Cys Leu Leu Ala Ser Trp Pro Gly Leu Gly
 1 5 10 15

Ala Gln Phe Cys Gly Ala Gly Val Cys Pro Leu Arg Val Pro Ser Leu
 20 25 30

Glu Pro Thr Leu Pro Asn Asp Gly Gly Gly Leu Glu Ala Leu Thr Leu
 35 40 45

Gly Gly Lys Glu Ala Lys Glu Arg Trp Arg Trp Lys Gly Arg Pro Gly
 50 55 60

Gln Gly Gly
 65

<210> 1638
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 1638
 Met Asp Arg Gly Val Met Cys Leu Leu Ala Ser Trp Pro Gly Leu Gly
 1 5 10 15

Ala Gln Phe Cys Gly Ala Gly Val Cys Pro Leu Arg Val Pro Ser Leu
 20 25 30

Glu Pro Thr Leu Pro Asn Asp Gly Gly Gly Leu Glu Ala Leu Thr Leu
 35 40 45

Gly Gly Lys Glu Ala Lys Glu Arg Trp Arg Trp Lys Gly Arg Pro Gly
 50 55 60

Gln Gly Gly
 65

<210> 1639
 <211> 83

<212> PRT
<213> Homo sapiens

<400> 1639
Gly His Val Leu Ala Tyr Ser Ser Trp Pro Ser Leu Ala Pro Gly Leu
1 5 10 15
Ser Val Gln Tyr Phe Val Ser Arg Val Glu Val Pro Asn Pro GlyCys
20 25 30
Thr Leu Glu Ala Pro Gly Lys Leu Ser Glu Phe Leu Arg Pro Glu Pro
35 40 45
His Pro Lys Pro Ile Ser Ser Glu Ser Leu Gly Gly Thr Glu Pro Gly
50 55 60
Phe Cys Gln Leu Lys Pro Ala Met Val Thr Ser Val Ser Ser Tyr Thr
65 70 75 80
Glu Asn Ser

<210> 1640
<211> 29
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring amino acids

<400> 1640
Met Tyr Val Trp Val Ser Gly Ala Leu Val Leu Val Leu SerPro His
1 5 10 15
Pro Ala Ser Arg Thr Leu Cys Leu Met Xaa Gln Ala Xaa
20 25

<210> 1641
<211> 80
<212> PRT
<213> Homo sapiens

<400> 1641
Pro His Cys Ala Ser Arg Ala Val Pro Tyr Pro Pro Gly Pro Ala Ala
1 5 10 15

Ala Ala Phe Pro Arg Gln Gly Leu Gln Leu Ala Thr Thr Cys Gly His
20 25 30
Ser Ser Asp Pro Ala Cys Phe Gly Gln Cys Pro Cys His Leu Cys Ala
35 40 45
Asn His Pro Gly Tyr Leu Trp Ser Tyr Arg Val His Leu Ser Pro Gln
50 55 60
Pro His Leu His Pro Pro Gln His Leu Leu ProPro His Cys Thr Leu
65 70 75 80

<210> 1642
<211> 56
<212> PRT
<213> Homo sapiens

<400> 1642
Met Phe Val Phe Val Val Val Ala Trp Thr Gly Asn Ser Ala Gly Leu
1 5 10 15
Leu Leu Tyr Ala Ser Leu Cys Leu Pro Ala Cys Ala Arg Gly Cys Gln
20 25 30
Gly Leu Leu Gly Gln Ser Gly His Pro Phe Leu Gln Gly Ser Leu Gln
35 40 45
Gln Leu Ala Cys Pro Trp Trp Gly
50 55

<210> 1643
<211> 51
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring amino acids

<400> 1643
Met Glu Leu Leu Gln Ala Lys Lys Leu Leu Leu Leu Gly Leu Phe
1 5 10 15
Val Ser Cys Xaa Ser Asn Ile Arg Lys Thr Glu Pro Cys Phe Gly Leu

20 25 30
 Asp Ser Ile Thr Phe Xaa Asp Pro Lys Lys Lys Cys Leu Ser Asn Leu
 35 40 45
 Lys Ser Cys
 50

<210> 1644
 <211> 1
 <212> PRT
 <213> Homo sapiens

<400> 1644
 Ala
 1

<210> 1645
 <211> 415
 <212> PRT
 <213> Homo sapiens

<400> 1645
 Val Gly Leu Val Ser Met Leu Gly Ile Pro Ile Pro Gly Ala Glu Gly
 1 5 10 15
 Ala Pro Val Leu Asn Ser Leu Val Phe Leu Ser Gly Gln Ser Thr Pro
 20 25 30
 Thr Gln Lys Gly Val Gly Ile Ala Gly Ala Val Cys Val Ser Ser Lys
 35 40 45
 Leu Arg Pro Arg Gly Gln Cys Arg Leu Glu Phe Ser Leu Ala Trp Asp
 50 55 60
 Met Pro Arg Ile Met Phe Gly Ala Lys Gly Gln Val His Tyr Arg Arg
 65 70 75 80
 Tyr Thr Arg Phe Phe Gly Gln Asp Gly Asp Ala Ala Pro Ala Leu Ser
 85 90 95
 His Tyr Ala Leu Cys Arg Tyr Ala Glu Trp Glu Glu Arg Ile Ser Ala
 100 105 110
 Trp Gln Ser Pro Val Leu Asp Asp Arg Ser Leu Pro Ala Trp Tyr Lys
 115 120 125
 Ser Ala Leu Phe Asn Glu Leu Tyr Phe Leu Ala Asp Gly Gly Thr Val
 130 135 140
 Trp Leu Glu Val Leu Glu Asp Ser Leu Pro Glu Glu Leu Gly Arg Asn
 145 150 155 160

Met Cys His Leu Arg Pro Thr Leu Arg Asp Tyr Gly Arg Phe Gly Tyr
 165 170 175
 Leu Glu Gly Gln Glu Tyr Arg Met Tyr Asn Thr Tyr Asp Val His Phe
 180 185 190
 Tyr Ala Ser Phe Ala Leu Ile Met Leu Trp Pro Lys Leu Glu Leu Ser
 195 200 205
 Leu Gln Tyr Asp Met Ala Leu Ala Thr Leu Arg Glu Asp Leu Thr Arg
 210 215 220
 Arg Arg Tyr Leu Met Ser Gly Val Met Ala Pro Val Lys Arg Arg Asn
 225 230 235 240
 Val Ile Pro His Asp Ile Gly Asp Pro Asp Asp Glu Phe Trp Leu Arg
 245 250 255
 Val Asn Ala Tyr Leu Ile His Asp Thr Ala Asp Trp Lys Asp Leu Asn
 260 265 270
 Leu Lys Phe Val Leu Gln Val Tyr Arg Asp Tyr Tyr Leu Thr Gly Asp
 275 280 285
 Gln Asn Phe Leu Lys Asp Met Trp Pro Val Cys Leu Ala Val Met Glu
 290 295 300
 Ser Glu Met Lys Phe Asp Lys Asp His Asp Gly Leu Ile Glu Asn Gly
 305 310 315 320
 Gly Tyr Ala Asp Gln Thr Tyr Asp Gly Trp Val Thr Thr Gly Pro Ser
 325 330 335
 Ala Tyr Cys Gly Gly Leu Trp Leu Ala Ala Val Ala Val Met Val Gln
 340 345 350
 Met Ala Ala Leu Cys Gly Ala Gln Asp Ile Gln Asp Lys Phe Ser Ser
 355 360 365
 Ile Leu Ser Arg Gly Gln Glu Ala Tyr Glu Arg Leu Leu Trp Asn Gly
 370 375 380
 Arg Tyr Tyr Asn Tyr Asp Ser Ser Ser Arg Pro Gln Ser Arg Ser Val
 385 390 395 400
 Met Ser Asp Gln Cys Ala Gly Gln Trp Phe Leu Lys Ala Cys Gly
 405 410 415

<210> 1646
 <211> 201
 <212> PRT
 <213> Homo sapiens

<400> 1646
 Met Thr Leu Arg Pro Ser Leu Leu Pro Leu His Leu Leu Leu Leu

1 5 10 15
 Leu Leu Ser Ala Ala Val Cys Arg Ala Glu Ala Gly Leu Glu Thr Glu
 20 25 30
 Ser Pro Val Arg Thr Leu Gln Val Glu Thr Leu Val Glu Pro Pro Glu
 35 40 45
 Pro Cys Ala Glu Pro Ala Ala Phe Gly Asp Thr Leu His Ile His Tyr
 50 55 60
 Thr Gly Ser Leu Val Asp Gly Arg Ile Ile Asp Thr Ser Leu Thr Arg
 65 70 75 80
 Asp Pro Leu Val Ile Glu Leu Gly Gln Lys Gln Val Ile Pro Gly Leu
 85 90 95
 Glu Gln Ser Leu Leu Asp Met Cys Val Gly Glu Lys Arg Arg Ala Ile
 100 105 110
 Ile Pro Ser His Leu Ala Tyr Gly Lys Arg Gly He Pro Pro Ser Val
 115 120 125
 Pro Ala Asp Ala Val Val Gln Tyr Asp Val Glu Leu Ile Ala Leu Ile
 130 135 140
 Arg Ala Asn Tyr Trp Leu Lys Leu Val Lys Gly Ile Leu Pro Leu Val
 145 150 155 160
 Gly Met Ala Met Val Pro Ala Leu Leu Gly Leu Ile Gly Tyr His Leu
 165 170 175
 Tyr Arg Lys Ala Asn Arg Pro Lys Val Ser Lys Lys Lys Leu Lys Bu
 180 185 190
 Glu Lys Arg Asn Lys Ser Lys Lys Lys
 195 200

<210> 1647 -
 <211> 203
 <212> PRT
 <213> Homo sapiens

<400> 1647
 Met Thr Leu Arg Pro Ser Leu Leu Pro Leu His LeuLeu Leu Leu Leu
 1 5 10 15
 Leu Leu Ser Ala Ala Val Cys Arg Ala Glu Ala Gly Leu Glu Thr Glu
 20 25 30
 Ser Pro Val Arg Thr Leu Gln Val Glu Thr Leu Val GluPro Pro Glu
 35 40 45
 Pro Cys Ala Glu Pro Ala Ala Phe Gly Asp Thr Leu His Ile His Tyr
 50 55 60

Thr Gly Ser Leu Val Asp Gly Arg Ile Ile Asp Thr Ser Leu Thr Arg
 65 70 75 80
 Asp Pro Leu Val Ile Glu Leu Gly Gln Lys Gln Val Ile Pro Gly Leu
 85 90 95
 Glu Gln Ser Leu Leu Asp Met Cys Val Gly Glu Lys Arg Arg Ala Ile
 100 105 110
 Ile Pro Ser His Leu Ala Tyr Gly Lys Arg Gly Phe Pro Pro Ser Val
 115 120 125
 Pro Ala Asp Ala Val Val Gln Tyr Asp Val Glu Leu Ile Ala Leu Ile
 130 135 140
 Arg Ala Asn Tyr Trp Leu Lys Leu Val Lys Gly Ile Leu Pro Leu Val
 145 150 155 160
 Gly Met Ala Met Val Pro Pro Ser Trp Ala Ser Leu Gly Ile Thr Tyr
 165 170 175
 Thr Glu Arg Pro Ile Asp Pro Lys Ser Pro Lys Arg Ser Ser Arg Lys
 180 185 190
 Arg Asn Glu Thr Arg Ala Lys Arg Asn Asn Lys
 195 200

<210> 1648
 <211> 313
 <212> PRT
 <213> Homo sapiens

<400> 1648
 Met Ala Gln Leu Glu Gly Tyr Tyr Phe Ser Ala Ala Leu Ser Cys Thr
 1 5 10 15
 Phe Leu Val Ser Cys Leu Leu Phe Ser Ala Phe Ser Arg Ala Leu Arg
 20 25 30
 Glu Pro Tyr Met Asp Glu Ile Phe His Leu Pro Gln Ala Gln Arg Tyr
 35 40 45
 Cys Glu Gly His Phe Ser Leu Ser Gln Trp Asp Pro Met Ile Thr Thr
 50 55 60
 Leu Pro Gly Leu Tyr Leu Val Ser Ile Gly Val Ile Lys Pro Ala Ile
 65 70 75 80
 Trp Ile Phe Gly Trp Ser Glu His Val Val Cys Ser Ile Gly Met Leu
 85 90 95
 Arg Phe Val Asn Leu Leu Phe Ser Val Gly Asn Phe Tyr Leu Leu Tyr
 100 105 110

Leu Leu Phe Cys Lys Val Gln Pro Arg Asn Lys Ala Ala Ser Ser Ile
 115 120 125
 Gln Arg Val Leu Ser Thr Leu Thr Leu Ala Val Phe Pro Thr Leu Tyr
 130 135 140
 Phe Phe Asn Phe Leu Tyr Tyr Thr Glu Ala Gly Ser Met Phe Phe Thr
 145 150 155 160
 Leu Phe Ala Tyr Leu Met Cys Leu Tyr Gly Asn His Lys Thr Ser Ala
 165 170 175
 Phe Leu Gly Phe Cys Gly Phe Met Phe Arg Gln Thr Asn Ile Ile Trp
 180 185 190
 Ala Val Phe Cys Ala Gly Asn Val Ile Ala Gln Lys Leu Thr Glu Ala
 195 200 205
 Trp Lys Thr Glu Leu Gln Lys Lys Glu Asp Arg Leu Pro Pro Ile Lys
 210 215 220
 Gly Pro Phe Ala Glu Phe Arg Lys Ile Leu Gln Phe Leu Leu Ala Tyr
 225 230 235 240
 Ser Met Ser Phe Lys Asn Leu Ser Met Leu Leu Leu Leu Thr Trp Pro
 245 250 255
 Tyr Ile Leu Leu Gly Phe Leu Phe Cys Ala Phe Val Val Val Asn Gly
 260 265 270
 Gly Ile Val Ile Gly Asp Arg Ser Ser His Glu Ala Cys Leu His Phe
 275 280 285
 Pro Gln Leu Phe Tyr Phe Phe Ser Phe Thr Leu Phe Phe Ser Phe Pro
 290 295 300
 His Leu Leu Ser Gln Gln Ile Asn Lys
 305 310

<210> 1649

<211> 134

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE
 <222> (76)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 1649
 Met Ala Gln Leu Glu Gly Tyr Xaa Phe Ser Ala Ala Leu Ser Cys Thr
 1 5 10 15
 Phe Leu Val Ser Cys Leu Leu Phe Ser Ala Phe Ser Arg Ala Leu Arg
 20 25 30
 Glu Pro Tyr Met Asp Glu Ile Phe His Leu Pro Gln Ala Gln Arg Tyr
 35 40 45
 Cys Glu Gly His Phe Ser Leu Ser Gln Trp Asp Pro Met Ile Thr Thr
 50 55 60
 Leu Pro Gly Leu Tyr Leu Val Ser Xaa Gly Val Xaa Lys Pro Ala Ile
 65 70 75 80
 Trp Ile Phe Gly Trp Ser Glu His Val Val Cys Ser Ile Gly Met Leu
 85 90 95
 Arg Phe Val Asn Leu Leu Phe Ser Val Gly Asn Phe Tyr Leu Leu Tyr
 100 105 110
 Leu Leu Phe Cys Lys Tyr Asn Pro Glu Thr Arg Leu Pro Gln Val Ser
 115 120 125
 Arg Glu Ser Cys Gln His
 130

<210> 1650
 <211> 159
 <212> PRT
 <213> Homo sapiens

<400> 1650
 Met Ala Gly Pro Gly Trp Thr Leu Leu Leu Leu Leu Leu Leu Leu
 1 5 10 15
 Leu Leu Gly Ser Met Ala Gly Tyr Gly Pro Gln Lys Lys Leu Asn Leu
 20 25 30
 Ser His Lys Gly Ile Gly Glu Pro Cys Gly Arg His Glu Glu Cys Gln
 35 40 45
 Ser Asn Cys Cys Thr Ile Asn Ser Leu Ala Pro His Thr Leu Cys Thr
 50 55 60
 Pro Lys Thr Ile Phe Leu Gln Cys Leu Pro Trp Arg Lys Pro Asn Gly
 65 70 75 80
 Tyr Arg Cys Ser His Asp Ser Glu Cys Gln Ser Ser Cys Cys Val Arg
 85 90 95

Asn Asn Ser Pro Gln Glu Leu Cys Thr Pro Gln Ser Val Phe Leu Gln
 100 105 110
 Cys Val Pro Trp Arg Lys Pro Asn Gly Asp Phe Cys Ser Ser His Gln
 115 120 125
 Glu Cys His Ser Gln Cys Cys Ile Gln Leu Arg Glu Tyr Ser Pro Phe
 130 135 140
 Arg Cys Ile Pro Arg Thr Gly Ile Leu Ala Gln Cys Leu Pro Leu
 145 150 155

<210> 1651
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 1651
 Met Met Leu Pro Gln Trp Leu Leu Leu Leu Phe Leu Leu Phe Phe Phe
 1 5 10 15
 Leu Phe Leu Leu Thr Arg Gly Ser Leu Ser Pro Thr Lys Tyr Asn Leu
 20 25 30
 Leu Glu Leu Lys Glu Ser Cys Ile Arg Asn Gln Asp Cys Glu Thr Gly
 35 40 45
 Cys Cys Gln Arg Ala Pro Asp Asn Cys Gu Ser His Cys Ala Glu Lys
 50 55 60
 Gly Ser Glu Gly Ser Leu Cys Gln Thr Gln Val Phe Phe Gly Gln Tyr
 65 70 75 80
 Arg Ala Cys Pro Cys Leu Arg Asn Leu Thr Cys Ile Tyr Ser Lys Asn
 85 90 95
 Glu Lys Trp Leu Ser Ile Ala Tyr Gly Arg Cys Gln Lys Ile Gly Arg
 100 105 110
 Gln Lys Leu Ala Lys Lys Met Phe Phe
 115 120

<210> 1652
 <211> 161
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (104)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1652

Met Pro Thr Thr Leu Pro Ser Asp Leu Met Leu Leu Trp Leu Gly Leu
1 5 10 15
Pro Ser Leu Pro Ser Pro Val Glu Glu Glu Gly Arg Leu Val Lys Gly
20 25 30
Leu Arg Leu Thr Leu Ala Ala Pro Ala Ser Glu Val Leu Pro Asp Trp
35 40 45
Glu Asp Pro Pro Ser His Pro Thr Ala Trp Ala Gln Pro Arg Thr His
50 55 60
Gln Pro Asp Thr Pro Asn Ser Ile Lys Ser Gly Ile Tyr Ser Pro Cys
65 70 75 80
Gly Gly Ala Val Leu Arg Gly Ala Gly Ala Ile Val Leu Arg Lys Glu
85 90 95
Val Cys Pro Ser Val Arg Leu Xaa Gly Arg Pro Gly Pro Lys Trp Gly
100 105 110
Arg Lys Arg Gly Thr Ala Arg Val Lys Ile Pro Ala Tyr Ser Gly Trp
115 120 125
Glu Tyr Val Gln Gly Gly Gly Ala Gln Ala Gly Val Gly Ala Gly Gly
130 135 140
Pro Ala Ala Ala Ala Pro Thr Arg Gly Pro Pro His Leu Gly Pro Tyr
145 150 155 160
Leu

<210> 1653

<211> 291

<212> PRT

<213> Homo sapiens

<400> 1653

Met Asp Cys Phe Ile Thr Phe Ser Ile Arg Glu Thr Thr Pro Ser Leu
1 5 10 15
Ser Cys Thr Trp Ser Cys Lys Gly Trp Phe Ile Leu Ser Thr Pro Gly
20 25 30
Glu Val Phe Gly Tyr Cys Gln Glu Leu Glu Leu Ser Leu His Tyr Leu
35 40 45
Leu Leu Pro Tyr Leu Leu Leu Gly Val Asn Leu Phe Phe Phe Thr Leu
50 55 60
Thr Cys Gly Thr Asn Pro Gly Ile Ile Thr Lys Aa Asn Glu Leu Leu
65 70 75 80

Phe Leu His Val Tyr Glu Phe Asp Glu Val Met Phe Pro Lys Asn Val
 85 90 95
 Arg Cys Ser Thr Cys Asp Leu Arg Lys Pro Ala Arg Ser Lys His Cys
 100 105 110
 Ser Val Cys Asn Trp Cys Val His Arg Phe Asp His His Cys Val Trp
 115 120 125
 Val Asn Asn Cys Ile Gly Ala Trp Asn Ile Arg Tyr Phe Leu Ile Tyr
 130 135 140
 Val Leu Thr Leu Thr Ala Ser Ala Ala Thr Val Ala Ile Val Ser Thr
 145 150 155 160
 Thr Phe Leu Val His Leu Val Val Met Ser Asp Leu Tyr Gln Glu Thr
 165 170 175
 Tyr Ile Asp Asp Leu Gly His Leu His Val Met Asp Thr Val Phe Leu
 180 185 190
 Ile Gln Tyr Leu Phe Leu Thr Phe Pro Arg Ile Val Phe Met Leu Gly
 195 200 205
 Phe Val Val Val Leu Ser Phe Leu Leu Gly Gly Tyr Leu Leu Phe Val
 210 215 220
 Leu Tyr Leu Ala Ala Thr Asn Gln Thr Thr Asn Glu Trp Tyr Arg Gly
 225 230 235 240
 Asp Trp Ala Trp Cys Gln Arg Cys Pro Leu Val Ala Trp Pro Pro Ser
 245 250 255
 Ala Glu Pro Gln Val His Arg Asn Ile His Ser His Gly Leu Arg Ser
 260 265 270
 Asn Leu Gln Glu Ile Phe Leu Pro Ala Phe Pro Cys His Glu Arg Lys
 275 280 285
 Lys Gln Glu
 290

<210> 1654
 <211> 184
 <212> PRT
 <213> Homo sapiens

<400> 1654
 Met Leu Phe Leu Phe Ser Met Ala Thr Leu Leu Arg Thr Ser Phe Ser
 1 5 10 15
 Asp Pro Gly Val Ile Pro Arg Ala Leu Pro Asp Glu Ala Ala Phe Ile
 20 25 30
 Glu Met Glu Ile Glu Ala Thr Asn Gly Ala Val Pro Gln Gly Gln Arg

35	40	45
Pro Pro Pro Arg Ile Lys Asn Phe Gln Ile Asn Asn Gln Ile Val Lys		
50	55	60
Leu Lys Tyr Cys Tyr Thr Cys Lys Ile Phe Arg Pro Pro Arg Ala Ser		
65	70	75
His Cys Ser Ile Cys Asp Asn Cys Val Glu Arg Phe Asp His His Cys		
85	90	95
Pro Trp Val Gly Asn Cys Val Gly Lys Arg Asn Tyr Arg Tyr Phe Tyr		
100	105	110
Leu Phe Ile Leu Ser Leu Ser Leu Leu Thr Ile Tyr Val Phe Ala Phe		
115	120	125
Asn Ile Val Tyr Val Ala Leu Lys Ser Leu Lys Ile Gly Phe Leu Glu		
130	135	140
Thr Leu Lys Gly Asn Ser Trp Asn Cys Ser Arg Ser Pro His Leu Leu		
145	150	155
Leu Tyr Thr Leu Val Arg Arg Gly Thr Asp Trp Ile Ser Tyr Phe Pro		
165	170	175
Arg Gly Ser Gln Pro Asp Asn Gln		
180		

<210> 1655

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1655

Met Lys Ala Ser Gln Cys Cys Cys Cys Leu Ser His Leu Leu Ala Ser
1 5 10 15

Val Leu Leu Leu Leu Leu Leu Pro Glu Leu Ser Gly Xaa Leu Xaa Val
20 25 30

Leu Leu Gln Ala Ala Glu Ala Ala Pro Gly Xaa Gly Pro Pro Asp Pro
 35 40 45
 Arg Pro Gly His Tyr Arg Arg Cys His Arg Ala Leu Thr Pro Ala Gln
 50 55 60
 Gln Pro Gly Arg Gly Leu Ala Glu Ala Ala Gly Ala Ala Gly Leu Arg
 65 70 75 80
 Gly Arg Gln Trp Gln Gln Pro Cys Gly Arg Ala
 85 90

<210> 1656
 <211> 122
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (89)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (91)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (94)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (97)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (98)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1656
 Met His Arg Ser Glu Pro Phe Leu Lys Met Ser Leu Leu Ile Leu Leu
 1 5 10 15
 Phe Leu Gly Leu Ala Glu Ala Cys Thr Pro Arg Glu Val Asn Leu Leu
 20 25 30
 Lys Gly Ile Ile Gly Leu Met Ser Arg Leu Ser Pro Asp Glu Ile Leu
 35 40 45
 Gly Leu Leu Ser Leu Gln Val Leu His Glu Glu Thr Ser Gly Cys Lys
 50 55 60

Glu Glu Val Lys Pro Phe Ser Gly Thr Thr Pro Ser ArgLys Pro Leu
 65 70 75 80
 Pro Lys Arg Glu Glu His Val Glu Xaa Pro Xaa Asn Ala Xaa Thr Trp
 85 90 95
 Xaa Xaa Thr Tyr Leu Phe Val Ser Tyr Asn Lys GlyAsp Trp Phe Thr
 100 105 110
 Phe Ser Ser Gln Val Leu Leu Pro Leu Leu
 115 120

<210> 1657
 <211> 229
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (206)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1657
 Met Tyr Lys Leu Leu Leu Phe Asp Leu Leu Thr Val Leu Ala Val Ala
 1 5 10 15
 Leu Leu Ile Gln Phe Pro Arg Lys Leu Leu Cys Gly Leu Cys Pro Ty
 20 25 30
 Ala Leu Gly Arg Leu Ala Gly Thr Gln Glu Phe Gln Val Pro Asp Glu
 35 40 45
 Val Leu Gly Leu Ile Tyr Ala Gln Thr Val Val Trp Val Gly Ser Phe
 50 55 60
 Phe Cys Pro Leu Leu Pro Leu Leu Asn Thr Val Lys Phe Leu Leu Leu
 65 70 75 80
 Phe Tyr Leu Lys Lys Leu Thr Leu Phe Ser Thr Cys Ser Pro Ala Ala
 85 90 95
 Arg Thr Phe Arg Ala Ser Ala Ala Asn Phe Phe Phe Pro Leu Val Leu
 100 105 110
 Leu Leu Gly Leu Ala Ile Ser Ser Val Pro Leu Leu Tyr Ser Ile Phe
 115 120 125
 Leu Ile Pro Pro Ser Lys Leu Cys Gly Pro Phe Arg Gly Gln Ser Ser
 130 135 140
 Ile Trp Ala Gln Ile Pro Glu Ser Ile Ser Ser Leu Pro Glu Thr Thr
 145 150 155 160
 Gln Asn Phe Leu Phe Phe Leu Gly Thr Gln Ala Phe Ala Val Pro Leu

<400> 1659

Met Ser Leu Leu Leu Pro Pro Leu Ala Leu Leu Leu Leu Leu Ala Ala
1 5 10 15
Leu Val Ala Pro Ala Thr Ala Ala Thr Ala Tyr Arg Pro Asp Trp Asn
20 25 30
Arg Leu Ser Gly Leu Thr Arg Ala Arg Val Glu Thr Cys Gly Gly
35 40 45

<210> 1660

<211> 549

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (398)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1660

Met Gly Asn Ala Cys Ile Pro Leu Lys Arg Ile Ala Tyr Phe Leu Cys
1 5 10 15
Leu Leu Ser Ala Leu Leu Leu Thr Glu Gly Lys Lys Pro Ala Lys Pro
20 25 30
Lys Cys Pro Ala Val Cys Thr Cys Thr Lys Asp Asn Ala Leu Cys Glu
35 40 45
Asn Ala Arg Ser Ile Pro Arg Thr Val Pro Pro Asp Val Ile Ser Leu
50 55 60
Ser Phe Val Arg Ser Gly Phe Thr Glu Ile Ser Glu Gly Ser Phe Leu
65 70 75 80
Phe Thr Pro Ser Leu Gln Leu Leu Leu Phe Thr Ser Asn Ser Phe Asp
85 90 95
Val Ile Ser Asp Asp Ala Phe Ile Gly Leu Pro His Leu Glu Tyr Leu
100 105 110
Phe Ile Glu Asn Asn Asn Ile Lys Ser Ile Ser Arg His Thr Phe Arg
115 120 125
Gly Leu Lys Xaa Leu Ile His Leu Ser Leu Ala Asn Asn Asn Leu Gln
130 135 140
Thr Leu Pro Lys Asp Ile Phe Lys Gly Leu Asn Ser Leu Thr Asn Val
145 150 155 160

Asp Leu Arg Gly Asn Ser Phe Asn Cys Asp Cys Lys Leu Lys Trp Leu
 165 170 175
 Val Glu Trp Leu Gly His Thr Asn Ala Thr Val Glu Asp Ile Tyr Cys
 180 185 190
 Glu Gly Pro Pro Glu Tyr Lys Lys Arg Lys Ile Asn Ser Leu Ser Ser
 195 200 205
 Lys Asp Phe Asp Cys Ile Ile Thr Glu Phe Ala Lys Ser Gln Asp Leu
 210 215 220
 Pro Tyr Gln Ser Leu Ser Ile Asp Thr Phe Ser Tyr Leu Asn Asp Glu
 225 230 235 240
 Tyr Val Val Ile Ala Gln Pro Phe Thr Gly Lys Cys Ile Phe Leu Glu
 245 250 255
 Trp Asp His Val Glu Lys Thr Phe Arg Asn Tyr Asp Asn Ile Thr Gly
 260 265 270
 Thr Ser Thr Val Val Cys Lys Pro Ile Val Ile Glu Thr Gln Leu Tyr
 275 280 285
 Val Ile Val Ala Gln Leu Phe Gly Gly Ser His Ile Tyr Lys Arg Asp
 290 295 300
 Ser Phe Ala Asn Lys Phe Ile Lys Ile Gln Asp Ile Glu Ile Leu Lys
 305 310 315 320
 Ile Arg Lys Pro Asn Asp Ile Glu Thr Phe Lys Ile Glu Asn Asn Trp
 325 330 335
 Tyr Phe Val Val Ala Asp Ser Ser Lys Ala Gly Phe Thr Thr Ile Tyr
 340 345 350
 Lys Trp Asn Gly Asn Gly Phe Tyr Ser His Gln Ser Leu His Ala Trp
 355 360 365
 Tyr Arg Asp Thr Asp Val Glu Tyr Leu Glu Ile Val Arg Thr Pro Gln
 370 375 380
 Thr Leu Arg Thr Pro His Leu Ile Leu Ser Ser Ser Ser Xaa Arg Pro
 385 390 395 400
 Val Ile Tyr Gln Trp Asn Lys Ala Thr Gln Leu Phe Thr Asn Gln Thr
 405 410 415
 Asp Ile Pro Asn Met Glu Asp Val Tyr Ala Val Lys His Phe Ser Val
 420 425 430
 Lys Gly Asp Val Tyr Ile Cys Leu Thr Arg Phe Ile Gly Asp Ser Lys
 435 440 445
 Val Met Lys Trp Gly Gly Ser Ser Phe Gln Asp Ile Gln Arg Met Pro
 450 455 460

Ser Arg Gly Ser Met Val Phe Gln Pro Leu Gln Ile Asn Asn Tyr Gln
 465 470 475 480
 Tyr Ala Ile Leu Gly Ser Asp Tyr Ser Phe Thr Gln Val Tyr Asn Trp
 485 490 495
 Asp Ala Glu Lys Ala Lys Phe Val Lys Phe Gln Glu Leu Asn Val Gln
 500 505 510
 Ala Pro Arg Ser Phe Thr His Val Ser Ile Asn Lys Arg Asn Phe Leu
 515 520 525
 Phe Ala Ser Ser Phe Lys Gly Asn Thr Gln Ile Tyr Lys His Val Ile
 530 535 540
 Val Asp Leu Ser Ala
 545

<210> 1661
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 1661
 Met Gly Asn Ala Cys Ile Pro Leu Lys Arg Ile Ala Tyr Phe Leu Cys
 1 5 10 15
 Leu Leu Ser Ala Leu Leu Leu Thr Glu Gly Lys Lys Pro Ala Asn Gln
 20 25 30
 Asn Ala Leu Pro Cys Val Leu Val Pro Lys Ile Met Leu Tyr Val Arg
 35 40 45
 Met Pro Asp Pro Phe His Ala Pro Phe Leu Leu Met Leu Ser His Tyr
 50 55 60
 Pro Leu
 65

<210> 1662
 <211> 56
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (53)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1662
 Met His Arg Leu Trp Ile Gly Pro Ala Phe Phe Leu Met Thr Ser Leu
 1 5 10 15

Ser Val Ser Gly Ala Val Ile Pro Arg Asn Gly Gly Pro Gly Gly Val
20 25 30
Ser Ser Gly Pro Cys Leu Leu Gln Leu Leu Cys Gly Gln Ala Gly Ser
35 40 45
Ser Thr Ile Arg Xaa Ile Pro Ser
50 55

<210> 1663
<211> 194
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (138)
<223> Xaa equals any of the naturally occurring amino acids

<400> 1663
Met Lys Leu Ala Ser Gly Phe Leu Val Leu Trp Leu Ser Leu Gly Gly
1 5 10 15
Gly Leu Ala Gln Ser Asp Thr Ser Pro Asp ThrGlu Glu Ser Tyr Ser
20 25 30
Asp Trp Gly Leu Arg His Leu Arg Gly Ser Phe Glu Ser Val Asn Ser
35 40 45
Tyr Phe Asp Ser Phe Leu Glu Leu Leu Gly Gly Lys Asn GlyVal Cys
50 55 60
Gln Tyr Arg Cys Arg Tyr Gly Lys Ala Pro Met Pro Arg Pro Gly Tyr
65 70 75 80
Lys Pro Gln Glu Pro Asn Gly Cys Gly Ser Tyr Phe Leu Gly Leu Lys
85 90 95
Val Pro Glu Ser Met Asp Leu Gly Ile Pro Ala Met Thr Lys Cys Cys
100 105 110
Asn Gln Leu Asp Val Cys Tyr Asp Thr Cys Gly Ala Asn Lys Tyr Arg
115 120 125
Cys Asp Ala Lys Phe Arg Trp Cys Leu Xaa Ser Ile Cys Ser Asp Leu
130 135 140
Lys Arg Ser Leu Gly Phe Val Ser Lys Val Glu Ala Cys Asp Ser Leu
145 150 155 160
Val Asp Thr Val Phe Asn Thr Val Trp Thr Leu Gly Cys Arg Pro Phe
165 170 175
Met Asn Ser Gln Arg Ala Ala Cys Ile Cys Ala Glu Glu Glu Lys Glu

180 185 190

Glu Leu

<210> 1664
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 1664
 Leu Gln Glu Phe Gly Thr Ser Gly Thr Ser Ala Asn Thr Thr Ala Val
 1 5 10 15
 Ala Leu Asn Ala Pro Ala His Pro Ala Arg Leu Leu Pro Pro Gly Pro
 20 25 30
 Ala Val Ala Leu Leu Leu Leu Arg Gly Ser Cys Ser Leu Cys Cys Cys
 35 40 45
 His Gln Pro His Lys Ala Ser Cys Lys Ala Met Pro Ser Ala Gly Ser
 50 55 60
 Asn Val Pro
 65

<210> 1665
 <211> 170
 <212> PRT
 <213> Homo sapiens

<400> 1665
 Met Ala Thr Ala Met Asp Trp Leu Pro Trp Ser Leu Leu Leu Phe Se
 1 5 10 15
 Leu Met Cys Glu Thr Ser Ala Phe Tyr Val Pro Gly Val Ala Pro Ile
 20 25 30
 Asn Phe His Gln Asn Asp Pro Val Glu Ile Lys Ala Val Lys Leu Thr
 35 40 45
 Ser Ser Arg Thr Gln Leu Pro Tyr Glu Tyr Tyr Ser Leu Pro Phe Cys
 50 55 60
 Gln Pro Ser Lys Ile Thr Tyr Lys Ala Glu Asn Leu Gly Glu Val Leu
 65 70 75 80
 Arg Gly Asp Arg Ile Val Asn Thr Pro Phe Gln Val Leu Met Asn Ser
 85 90 95
 Glu Lys Lys Cys Glu Val Leu Cys Ser Gln Ser Asn Lys Pro Val Thr
 100 105 110

Leu Thr Val Glu Gln Ser Arg Leu Val Ala Glu Arg Ile Thr Glu Asp
 115 120 125
 Tyr Tyr Val His Leu Ile Ala Asp Asn Leu Pro Val Ala Thr Arg Leu
 130 135 140
 Glu Leu Tyr Ser Asn Arg Asp Ser Asp Asp Lys Lys Lys Glu Ser Asp
 145 150 155 160
 Ile Lys Trp Ala Ser Arg Trp Asp Thr Tyr
 165 170

<210> 1666
 <211> 151
 <212> PRT
 <213> Homo sapiens

<400> 1666
 His Ala Ser Gly Ala Arg Arg Arg Leu Gln Ala Pro Pro Val Pro His
 1 5 10 15
 Asp Pro Gln Leu Pro Ala Gly Leu Arg His Ser Ala Val Leu Tyr Asp
 20 25 30
 Pro His Arg His Leu Cys Ser His Ala Trp Asp Ala Val Ala Leu Gln
 35 40 45
 Pro Gly Ser Ser His Asp His Ser Leu Leu Pro Leu His Val His Gly
 50 55 60
 Gly Val Trp Arg Ile Phe Cys Trp Pro Ser Val Pro His Phe Lys Arg
 65 70 75 80
 Pro Ser Val Glu Glu Arg Ser Leu Leu Tyr Gly Asn Ser Val Pro Trp
 85 90 95
 Cys Gly Phe Trp His Leu Leu Arg Ile Glu Leu Leu His Leu Gly Lys
 100 105 110
 Ala Leu Ile Arg Ser Gly Ala Leu Ser His His Gly Gly Ser Ala Val
 115 120 125
 His Val Val Arg Asp Leu Pro Ala Pro Arg Leu Leu Gly Leu Leu Leu
 130 135 140
 Arg Leu Pro Lys Ala Ala Ile
 145 150

<210> 1667
 <211> 166
 <212> PRT
 <213> Homo sapiens

<400> 1667

Met Ser Phe Thr Val Ser Met Ala Ile Gly Leu Val Leu Gly Gly Phe
1 5 10 15
Ile Trp Ala Val Phe Ile Cys Leu Ser Arg Arg Arg Arg Ala Ser Ala
20 25 30
Pro Ile Ser Gln Trp Ser Ser Ser Arg Arg Ser Arg Ser Ser Tyr Thr
35 40 45
His Gly Leu Asn Arg Thr Gly Phe Tyr Arg His Ser Gly Cys Glu Arg
50 55 60
Arg Ser Asn Leu Ser Leu Ala Ser Leu Thr Phe Gln Arg Gln Ala Ser
65 70 75 80
Leu Glu Gln Ala Asn Ser Phe Pro Arg Lys Ser Ser Phe Arg Ala Ser
85 90 95
Thr Phe His Pro Phe Leu Gln Cys Pro Pro Leu Pro Val Glu Thr Glu
100 105 110
Ser Gln Leu Val Thr Leu Pro Ser Ser Asn Ile Ser Pro Thr Ile Ser
115 120 125
Thr Ser His Ser Leu Ser Arg Pro Asp Tyr Trp Ser Ser Asn Ser Leu
130 135 140
Arg Val Gly Leu Ser Thr Pro Pro Pro Pro Ala Tyr Glu Ser Ile Ile
145 150 155 160
Lys Ala Phe Pro Asp Ser
165

<210> 1668

<211> 26

<212> PRT

<213> Homo sapiens

<400> 1668

Gly Leu Phe Leu Gly Gln Met Asn Trp Ile Phe Ser Cys Cys Phe Ser
1 5 10 15
Asn Asn Val Thr Thr Thr Val Lys Lys Arg
20 25

<210> 1669

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1669

Arg Leu Leu Asn Leu Ser Val Pro Met Phe Thr Phe Ile Val Val Lys

<400> 1672

Ser Asn Pro Ser His Ile Leu Met Ile Ser Ile Leu Leu Ser His Ala
1 5 10 15
Ser Arg Gly Ala Gly Ala Asp Pro Lys Arg Ser Cys Cys Pro Gln Arg
20 25 30
Val Gly Ser Arg Gly Arg Ala Xaa Val Arg Leu Thr Arg Leu Cys Ser
35 40 45
Gln Pro Ser Pro His
50

<210> 1673

<211> 163

<212> PRT

<213> Homo sapiens

<400> 1673

Met Gly Ser Thr Trp Gly Ser Pro Gly Trp Val Arg Leu Ala Leu Cys
1 5 10 15
Leu Thr Gly Leu Val Leu Ser Leu Tyr Ala Leu His Val Lys Ala Ala
20 25 30
Arg Ala Arg Asp Arg Asp Tyr Arg Ala Leu Cys Asp Val Gly Thr Ala
35 40 45
Ile Ser Cys Ser Arg Val Phe Ser Ser Arg Trp Gly Arg Gly Phe Gly
50 55 60
Leu Val Glu His Val Leu Gly Gln Asp Ser Ile Leu Asn Gln Ser Asn
65 70 75 80
Ser Ile Phe Gly Cys Ile Phe Tyr Thr Leu Gln Leu Leu Le Gly Cys
85 90 95
Leu Arg Thr Arg Trp Ala Ser Val Leu Met Leu Leu Ser Ser Leu Val
100 105 110
Ser Leu Ala Gly Ser Val Tyr Leu Ala Trp Ile Leu Phe Phe Val Leu
115 120 125
Tyr Asp Phe Cys Ile Val Cys Ile Thr Thr Tyr Ala Ile Asn Val Ser
130 135 140
Leu Met Trp Leu Ser Phe Arg Lys Val Gln Glu Pro Gln Gly Lys Ala
145 150 155 160
Lys Arg His

<210> 1674

<211> 92
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (61)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (68)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1674
 Met Gly Ser Thr Trp Gly Ser Pro Gly Trp Val Arg Leu Ala Leu Cys
 1 5 10 15
 Leu Thr Gly Leu Val Leu Ser Leu Tyr Ala Leu His Val Lys Ala Ala
 20 25 30
 Arg Ala Arg Asp Arg Asp Tyr Arg Ala Leu Cys Asp Val Gly Thr Ala
 35 40 45
 Ile Ser Cys Ser Arg Val Phe Ser Ser Arg Leu Pro Xaa Asp Thr Leu
 50 55 60
 Gly Leu Cys Xaa Asp Ala Ala Glu Leu Pro Gly Val Ser Arg Trp Phe
 65 70 75 80
 Cys Leu Pro Gly Leu Asp Pro Val Leu Arg Ala Leu
 85 90

<210> 1675
 <211> 236
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (55)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1675
 Met Ile Ser Leu Pro Gly Pro Leu Val Thr Asn Leu Leu Arg Phe Leu
 1 5 10 15
 Phe Leu Gly Leu Ser Ala Leu Ala Pro Pro Ser Arg Ala Gln Leu Gln
 20 25 30
 Leu His Leu Pro Ala Asn Arg Leu Gln Ala Val Glu Gly Gly Glu Val
 35 40 45
 Val Leu Pro Ala Trp Tyr Xaa Leu His Gly Glu Val Ser Ser Ser Gln
 50 55 60

Pro Trp Glu Val Pro Phe Val Met Trp Phe Phe Lys Gln Lys Glu Lys
 65 70 75 80
 Glu Asp Gln Val Leu Ser Tyr Ile Asn Gly Val Thr Thr Ser Lys Pro
 85 90 95
 Gly Val Ser Leu Val Tyr Ser Met Pro Ser Arg Asn Leu Ser Leu Arg
 100 105 110
 Leu Glu Gly Leu Gln Glu Lys Asp Ser Gly Pro Tyr Ser Cys Ser Val
 115 120 125
 Asn Val Gln Asp Lys Gln Gly Lys Ser Arg Gly His Ser Ile Lys Thr
 130 135 140
 Leu Glu Leu Asn Val Leu Val Pro Pro Ala Pro Pro Ser Cys Arg Leu
 145 150 155 160
 Gln Gly Val Pro His Val Gly Ala Asn Val Thr Leu Ser Cys Gln Ser
 165 170 175
 Pro Arg Ser Lys Pro Ala Val Gln Tyr Gln Trp Asp Arg Gln Leu Pro
 180 185 190
 Ser Phe Gln Thr Phe Phe Ala Pro Ala Leu Asp Val Ile Arg Gly Ser
 195 200 205
 Leu Ser Leu Thr Asn Leu Ser Ser Ser Met Ala Gly Val Tyr Val Cys
 210 215 220
 Lys Ala His Asn Glu Val Gly Thr Ala Asn Val Met
 225 230 235

<210> 1676

<211> 95

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1676

Met Thr Ser Tyr Ile Leu Ile Ser Phe Val Leu Leu Ile Gly Val Gly
 1 5 10 15

Cys Ile Glu Lys Asp Gln Ser Cys Pro Val Phe Gly Gly Arg Lys Arg
 20 25 30

Leu His Leu Leu Phe Val Gly Gly Gln Leu Arg Gln Val Xaa Leu Gly
 35 40 45

Ala Pro Arg Pro Pro Gly Gly Gln Asp Pro Ser His Gln Arg Leu Gly

50 55 60
 Arg Gly Glu Leu Pro Leu Val Arg Gln His His Arg Asp Leu His His
 65 70 75 80
 Arg Gly Pro His Gln Glu Gly Leu Gln Val His His Gln His Glu
 85 90 95

<210> 1677
 <211> 152
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1677
 Xaa Pro Ser Trp Trp Gly Pro Arg Trp Cys Arg Ser Ser Cys Gly Val
 1 5 10 15
 Ala Arg Thr Arg Val Val His Pro Val Arg Val Ala Asp Gly Leu Asp
 20 25 30
 Leu Ala Leu Leu Glu Val Gly Glu Leu Pro Ala Gly His Ala Leu Leu
 35 40 45
 Ala Val Leu Val Val Glu Leu His Val Ala Ala Arg Leu Asp Pro Ala
 50 55 60
 Asn Tyr Pro Ser Leu Leu Leu Gly Asp Gly Arg His Asp His Leu Gly
 65 70 75 80
 Arg Gly Pro Glu Val Gly Cys Pro Val Ala Glu His His Ala Gly Gly
 85 90 95
 Leu Ile Asp Ala Ser Gly Asp Gly Val Asp Gly Gly Phe His Ile Asn
 100 105 110
 His Arg Asp Pro Phe Pro Glu Asp Ser Gly Phe Ala Ser Asp Ala Leu
 115 120 125
 Asn Thr Ala His Gly Ile Gln Glu Arg Ser Asp Leu Gln Gly Arg Pro
 130 135 140
 Ala Val Thr Glu Lys Thr Arg His
 145 150

<210> 1678
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 1678

Met Ser Gly Gly Leu Ser Phe Leu Leu Leu Val
1 5 10

<210> 1679

<211> 302

<212> PRT

<213> Homo sapiens

<400> 1679

Met Ala Arg Ala Arg Gly Ser Pro Cys Pro Pro Leu Pro Pro Gly Arg
1 5 10 15
Met Ser Trp Pro His Gly Ala Leu Leu Phe Leu Trp Leu Phe Ser Pro
20 25 30
Pro Leu Gly Ala Gly Gly Gly Gly Val Ala Val Thr Ser Ala Ala Gly
35 40 45
Gly Gly Ser Pro Pro Ala Thr Ser Cys Pro Val Ala Cys Ser Cys Ser
50 55 60
Asn Gln Ala Ser Arg Val Ile Cys Thr Arg Arg Asp Leu Ala Glu Val
65 70 75 80
Pro Ala Ser Ile Pro Val Asn Thr Arg Tyr Leu Asn Leu Gln Glu Asn
85 90 95
Gly Ile Gln Val Ile Arg Thr Asp Thr Phe Lys His Leu Arg His Leu
100 105 110
Glu Ile Leu Gln Leu Ser Lys Asn Leu Val Arg Lys Ile Glu Val Gly
115 120 125
Ala Phe Asn Gly Leu Pro Ser Leu Asn Thr Leu Glu Leu Phe Asp Asn
130 135 140
Arg Leu Thr Thr Val Pro Thr Gln Ala Phe Glu Tyr Leu Ser Lys Leu
145 150 155 160
Arg Glu Leu Trp Leu Arg Asn Asn Pro Ile Glu Ser Ile Pro Ser Tyr
165 170 175
Ala Phe Asn Arg Val Pro Ser Leu Arg Arg Leu Asp Leu Gly Glu Leu
180 185 190
Lys Arg Leu Glu Tyr Ile Ser Glu Ala Ala Phe Glu Gly Leu Val Asn
195 200 205
Leu Arg Tyr Leu Asn Leu Gly Met Cys Asn Leu Lys Asp Ile Pro Asn
210 215 220
Leu Thr Ala Leu Val Arg Leu Glu Glu Leu Glu Leu Ser Gly Asn Arg
225 230 235 240

Leu Asp Leu Ile Arg Pro Gly Ser Phe Gln Gly Leu Thr Ser Leu Arg
 245 250 255
 Lys Leu Trp Leu Met His Ala Gln Val Ala Thr Ile Glu Arg Asn Ala
 260 265 270
 Phe Asp Asp Leu Lys Ser Leu Glu Glu Leu Asn Leu Ser His Asn Asn
 275 280 285
 Leu Met Ser Leu Pro His Asp Leu Phe Thr Pro Leu His Arg
 290 295 300

<210> 1680

<211> 224

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1680

Met Ala Arg Ala Arg Gly Ser Pro Cys Pro Pro Leu Pro Pro Gly Arg
 1 5 10 15
 Met Ser Trp Pro His Gly Ala Leu Leu Phe Leu Trp Leu Phe Ser Pro
 20 25 30
 Pro Leu Gly Ala Gly Gly Gly Gly Val Ala Val Thr Ser Ala Ala Gly
 35 40 45
 Gly Gly Ser Pro Pro Ala Thr Ser Cys Pro Val Ala Cys Ser Cys Ser
 50 55 60
 Asn Gln Ala Ser Arg Val Ile Cys Thr Arg Arg Xaa Leu Ala Glu Val
 65 70 75 80
 Pro Ala Ser Ile Pro Val Asn Thr Arg Tyr Leu Asn Leu Glu Glu Asn
 85 90 95
 Gly Ile Gln Val Ile Arg Thr Asp Thr Phe Lys His Leu Arg His Leu
 100 105 110
 Glu Ile Leu Gln Leu Ser Lys Asn Leu Val Arg Lys Ile Glu Val Gly
 115 120 125
 Ala Phe Asn Gly Leu Pro Ser Leu Asn Thr Leu Glu Leu Phe Asp Asn
 130 135 140
 Arg Leu Thr Thr Val Pro Thr Gln Ala Phe Glu Tyr Leu Ser Lys Leu
 145 150 155 160
 Arg Glu Leu Trp Leu Arg Asn Asn Pro Ile Glu Ser Ile Pro Ser Tyr

	165		170		175
Ala Phe Asn Arg Val Pro Ser Leu Arg Arg Leu Asp Leu Gly Glu Leu					
	180		185		190
Lys Arg Leu Glu Tyr Ile Ser Glu Ala Ala Phe Glu Gly Leu Val Asn					
	195		200		205
Leu Arg Tyr Leu Asn Leu Gly Met Cys Asn Leu Lys Asp Ile Pro Asn					
	210		215		220

<210> 1681
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 1681
Met Lys Ala Leu Cys Leu Leu Leu Leu Pro Val Leu Gly Leu Leu Val
1 5 10 15
Ser Ser Lys Thr Leu Cys Ser Met Glu Glu Ala Ile Asn Glu Arg Ile
20 25 30
Gln Glu Val Ala Gly Ser Leu Ile Phe Arg Ala Ile Ser Ser Ile Gly
35 40 45
Leu Glu Cys Gln Ser Val Thr Ser Arg Gly Asp Leu Ala Thr Cys Pro
50 55 60
Arg Gly Phe Ala Val Thr Gly Cys Thr Cys Gly Ser Ala Cys Gly Ser
65 70 75 80
Trp Asp Val Arg Ala Glu Thr Thr Cys His Cys Gln Cys Ala Gly Met
85 90 95
Asp Trp Thr Gly Ala Arg Cys Cys Arg Val Gln Pro
100 105

<210> 1682
 <211> 130
 <212> PRT
 <213> Homo sapiens

<400> 1682
Ser Thr Cys Cys Gly Trp Gly Pro Leu Gly His Ser Arg Val Arg Gly
1 5 10 15
Cys His Cys His Leu Gly His Val Gly Arg His Gln His Phe Val Val
20 25 30

Thr Asn Ser Thr Val Thr Asn Ile Phe Gly Gln Ile Pro Phe Tyr Thr
 35 40 45
 Ser Arg Gln Leu Leu Val Cys Asn Pro Thr Gly Gln Arg Glu Gly Pro
 50 55 60
 Val Thr Trp Leu Ser His Cys Pro Ala Pro Gln Met Val Leu Gly Leu
 65 70 75 80
 Leu Phe Ser Leu Gly Pro Ala Asn Thr Thr Val Phe Thr Ser Ala His
 85 90 95
 Trp Leu Ser Ala Val Val Pro Gly Ser Gln Trp His Val Ser Pro Arg
 100 105 110
 Ser Ser Leu Ile Pro Gln His Thr Pro Lys Gly Ser Val Ala Asn Thr
 115 120 125
 Leu Asn
 130

<210> 1683
 <211> 122
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (19)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (73)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1683
 Lys Ala Pro Ser Ser His Pro Gly Leu Thr Cys Val Ser Leu Ser Arg
 1 5 10 15
 Leu Gln Xaa Ser Leu Ser Leu Cys Phe Pro Ser Gly Pro Cys Trp Ala
 20 25 30
 Gly Leu Leu Ser Ser Leu Ala Leu Ala Gly Gly Ala Pro Gly Ala Leu
 35 40 45
 Pro Pro Trp Gln Pro Gly Gln Asp Ser Lys Met Arg Thr Ala Glu Leu
 50 55 60
 Val Gly Gly Ser His Gly Pro Ala Xaa Gly Pro Gly Glu Ala Glu Pro
 65 70 75 80
 Glu Pro Thr Ala Val Val Leu Trp Thr Val Asp Pro Glu Gly Gly Leu
 85 90 95

Gly Gln Val Pro Ala Glu Gly Pro Gly Gly Leu Cys Val Pro Leu Gly
 100 105 110

Pro Gly Ala Leu Val Thr Trp Thr Pro Gly
 115 120

<210> 1684
 <211> 223
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (132)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1684
 Ala Trp Tyr Leu Leu Arg Val Gln Val Leu Gln Leu Val Ala Ala Tyr
 1 5 10 15

Leu Ser Leu Pro Ser Asn Asn Leu Ser His SerLeu Trp Glu Gln Leu
 20 25 30

Cys Ala Gln Gly Trp Gln Thr Pro Glu Ile Ala Leu Ile Asp Ser His
 35 40 45

Lys Leu Leu Arg Ser Ile Ile Leu Leu Leu Met Gly Ser AspIle Leu
 50 55 60

Ser Thr Gln Lys Ala Ala Val Glu Thr Ser Phe Leu Asp Tyr Gly Glu
 65 70 75 80

Asn Leu Val Gln Lys Trp Gln Val Leu Ser Glu Val Leu Ser Cys Ser
 85 90 95

Glu Lys Leu Val Cys His Leu Gly Arg Leu Gly Ser Val Ser Glu Ala
 100 105 110

Lys Ala Phe Cys Leu Glu Ala Leu Lys Leu Thr Thr Lys Leu Gln Ile
 115 120 125

Pro Arg Gln Xaa Ala Leu Phe Leu Val Leu Lys Gly Glu Leu Glu Leu
 130 135 140

Ala Arg Asn Asp Ile Asp Leu Cys Gln Ser Asp Leu Gln Gln Val Leu
 145 150 155 160

Phe Leu Leu Glu Ser Cys Thr Glu Phe Gly Gly Val Thr Gln His Leu
 165 170 175

Asp Ser Val Lys Lys Val His Leu Gln Lys Gly Lys Gln Gln Ala Gln
 180 185 190

Val Pro Cys Pro Pro Gln Leu Pro Glu Glu Glu Leu Phe Leu Arg Gly
 195 200 205

Pro Ala Leu Glu Leu Val Pro Leu Trp Pro Arg Ser Leu Ala Pro
 210 215 220

<210> 1685
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 1685
 Ala Trp Phe Leu Val Lys Pro Glu
 1 5

<210> 1686
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1686
 Ile Val Leu Lys Tyr Ile Met Ala Gly Cys Pro Leu Phe Leu Gly Asn
 1 5 10 15
 Leu Trp Asp Val Thr Asp Arg Asp Ile Asp Arg Tyr Thr Glu Ala Leu
 20 25 30
 Leu Gln Gly Trp Leu Gly Ser Arg Pro Arg Ala Pro Leu Leu Tyr Tyr
 35 40 45
 Val Asn Gln Ala Arg Gln Ala Pro Arg Leu Lys Tyr Leu Ile Gly Ala
 50 55 60
 Ala Pro Ile Pro Met Ala Cys Leu Ser Leu Cys Gly Asn Pro Met Glu
 65 70 75 80
 Leu Ser Tyr

<210> 1687
 <211> 143
 <212> PRT
 <213> Homo sapiens

<400> 1687
 Met Ala Thr Ala Arg Pro Pro Trp Met Trp Val Leu Cys Ala Leu Ile
 1 5 10 15
 Thr Ala Leu Leu Leu Gly Val Thr Glu His Val Leu Ala Asn Asn Asp
 20 25 30
 Val Ser Cys Asp His Pro Ser Asn Thr Val Pro Ser Gly Ser Asn Gln
 35 40 45

Asp Leu Gly Ala Gly Ala Gly Glu Asp Ala Arg Ser Asp Asp Ser Ser
 50 55 60
 Ser Arg Ile Ile Asn Gly Ser Asp Cys Asp Met His Thr Gln Pro Trp
 65 70 75 80
 Gln Ala Ala Leu Leu Leu Arg Pro Asn Gln Leu Tyr Cys Gly Ala Val
 85 90 95
 Leu Val His Pro Gln Trp Leu Leu Thr Ala Ala His Leu Gln Glu Glu
 100 105 110
 Ser Phe Gln Ser Arg Leu Gly His Tyr Ser Leu Ser Gln Phe Ile Glu
 115 120 125
 Ser Gly Pro Glu Met Ser Arg Gly Ser Ile Gln Ser Arg Thr Gly
 130 135 140

<210> 1688
 <211> 293
 <212> PRT
 <213> Homo sapiens

<400> 1688
 Met Ala Thr Ala Arg Pro Pro Trp Met Trp Val Leu Cys Ala Leu Ile
 1 5 10 15
 Thr Ala Leu Leu Leu Gly Val Thr Glu His Val Leu Ala Asn Asn Asp
 20 25 30
 Val Ser Cys Asp His Pro Ser Asn Thr Val Pro Ser Gly Ser Asn Gln
 35 40 45
 Asp Leu Gly Ala Gly Ala Gly Glu Asp Ala Arg Ser Asp Asp Ser Ser
 50 55 60
 Ser Arg Ile Ile Asn Gly Ser Asp Cys Asp Met His Thr Gln Pro Trp
 65 70 75 80
 Gln Ala Ala Leu Leu Leu Arg Pro Asn Gln Leu Tyr Cys Gly Ala Val
 85 90 95
 Leu Val His Pro Gln Trp Leu Leu Thr Ala Ala His Cys Arg Lys Lys
 100 105 110
 Val Phe Arg Val Arg Leu Gly His Tyr Ser Leu Ser Pro Val Tyr Glu
 115 120 125
 Ser Gly Gln Gln Met Phe Gln Gly Val Lys Ser Ile Pro His Pro Gly
 130 135 140
 Tyr Ser His Pro Gly His Ser Asn Asp Leu Met Leu Ile Lys Leu Asn
 145 150 155 160

Arg Arg Ile Arg Pro Thr Lys Asp Val Arg Pro Ile Asn Val Ser Ser
 165 170 175
 His Cys Pro Ser Ala Gly Thr Lys Cys Leu Val Ser Gly Trp Gly Thr
 180 185 190
 Thr Lys Ser Pro Gln Val His Phe Pro Lys Val Leu Gln Cys Leu Asn
 195 200 205
 Ile Ser Val Leu Ser Gln Lys Arg Cys Glu Asp Ala Tyr Pro Arg Gln
 210 215 220
 Ile Asp Asp Thr Met Phe Cys Ala Gly Asp Lys Ala Gly Arg Asp Ser
 225 230 235 240
 Cys Gln Gly Asp Ser Gly Gly Pro Val Val Cys Asn Gly Ser Leu Gln
 245 250 255
 Gly Leu Val Ser Trp Gly Asp Tyr Pro Cys Ala Arg Pro Asn Arg Pro
 260 265 270
 Gly Val Tyr Thr Asn Leu Cys Lys Phe Thr Lys Trp Ile Gln Glu Thr
 275 280 285
 Ile Gln Ala Asn Ser
 290

<210> 1689
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 1689
 Met Ala Thr Ala Arg Pro Pro Trp Met Trp Val Leu Cys Ala Leu Ile
 1 5 10 15
 Thr Ala Leu Leu Leu Gly Val Thr Glu His Val Leu Ala Asn Asn Asp
 20 25 30
 Val Ser Cys Asp His Pro Ser Asn Thr Val Pro Ser Gly Ser Asn Arg
 35 40 45
 Thr Trp Glu Leu Gly Pro Gly Lys Thr Pro Gly Arg Met Th Ala Ala
 50 55 60
 Ala Ala Ser Ser Met Asp Pro Thr Ala Ile Cys Thr Pro Ser Arg Gly
 65 70 75 80
 Arg Pro Arg Cys Cys
 85

<210> 1690
 <211> 293

<212> PRT

<213> Homo sapiens

<400> 1690

Met	Ala	Thr	Ala	Arg	Pro	Pro	Trp	Met	Trp	Val	Leu	Cys	Ala	Leu	Ile	
1				5					10					15		
Thr	Ala	Leu	Leu	Leu	Gly	Val	Thr	Glu	His	Val	Leu	Ala	Asn	Asn	Asp	
			20					25					30			
Val	Ser	Cys	Asp	His	Pro	Ser	Asn	Thr	Val	Pro	Ser	Gly	Ser	Asn	Gln	
		35					40					45				
Asp	Leu	Gly	Ala	Gly	Ala	Gly	Glu	Asp	Ala	Arg	Ser	Asp	Asp	Ser	Ser	
	50					55					60					
Ser	Arg	Ile	Ile	Asn	Gly	Ser	Asp	Cys	Asp	Met	His	Thr	Gln	Pro	Trp	
65					70					75					80	
Gln	Ala	Ala	Leu	Leu	Leu	Arg	Pro	Asn	Gln	Leu	Tyr	Cys	Gly	Ala	Val	
				85					90					95		
Leu	Val	His	Pro	Gln	Trp	Leu	Leu	Thr	Ala	Ala	His	Cys	Arg	Lys	Lys	
			100					105					110			
Val	Phe	Arg	Val	Arg	Leu	Gly	His	Tyr	Ser	Leu	Ser	Pro	Val	Tyr	Glu	
		115					120					125				
Ser	Gly	Gln	Gln	Met	Phe	Gln	Gly	Val	Lys	Ser	Ile	Pro	His	Pro	Gly	
	130					135					140					
Tyr	Ser	His	Pro	Gly	His	Ser	Asn	Asp	Leu	Met	Leu	Ile	Lys	Leu	Asn	
145					150					155					160	
Arg	Arg	Ile	Arg	Pro	Thr	Lys	Asp	Val	Arg	Pro	Ile	Asn	Val	Ser	Ser	
				165					170						175	
His	Cys	Pro	Ser	Ala	Gly	Thr	Lys	Cys	Leu	Val	Ser	Gly	Trp	Gly	Thr	
			180					185					190			
Thr	Lys	Ser	Pro	Gln	Val	His	Phe	Pro	Lys	Val	Leu	Gln	Cys	Leu	Asn	
		195					200					205				
Ile	Ser	Val	Leu	Ser	Gln	Lys	Arg	Cys	Glu	Asp	Ala	Tyr	Pro	Arg	Gln	
	210					215					220					
Ile	Asp	Asp	Thr	Met	Phe	Cys	Ala	Gly	Asp	Lys	Ala	Gly	Arg	Asp	Ser	
225					230					235					240	
Cys	Gln	Gly	Asp	Ser	Gly	Gly	Pro	Val	Val	Cys	Asn	Gly	Ser	Leu	Gln	
				245					250					255		
Gly	Leu	Val	Ser	Trp	Gly	Asp	Tyr	Pro	Cys	Ala	Arg	Pro	Asn	Arg	Pro	
			260					265					270			
Gly	Val	Tyr	Thr	Asn	Leu	Cys	Lys	Phe	Thr	Lys	Trp	Ile	Gln	Glu	Thr	
		275					280					285				

Ile Gln Ala Asn Ser
290

<210> 1691
<211> 293
<212> PRT
<213> Homo sapiens

<400> 1691
Met Ala Thr Ala Arg Pro Pro Trp Met Trp Val Leu Cys Ala Leu Ile
1 5 10 15
Thr Ala Leu Leu Leu Gly Val Thr Glu HisVal Leu Ala Asn Asn Asp
20 25 30
Val Ser Cys Asp His Pro Ser Asn Thr Val Pro Ser Gly Ser Asn Gln
35 40 45
Asp Leu Gly Ala Gly Ala Gly Glu Asp Ala Arg Ser AspAsp Ser Ser
50 55 60
Ser Arg Ile Ile Asn Gly Ser Asp Cys Asp Met His Thr Gln Pro Trp
65 70 75 80
Gln Ala Ala Leu Leu Leu Arg Pro Asn Gln Leu Tyr Cys Gly AlaVal
85 90 95
Leu Val His Pro Gln Trp Leu Leu Thr Ala Ala His Cys Arg Lys Lys
100 105 110
Val Phe Arg Val Arg Leu Gly His Tyr Ser Leu Ser Pro Val Tyr Glu
115 120 125
Ser Gly Gln Gln Met Phe Gln Gly Val Lys Ser Ile Pro His Pro Gly
130 135 140
Tyr Ser His Pro Gly His Ser Asn Asp Leu Met Leu Ile Lys Leu Asn
145 150 155 160
Arg Arg Ile Arg Pro Thr Lys Asp Val Arg Pro Ile Asn Val Ser Ser
165 170 175
His Cys Pro Ser Ala Gly Thr Lys Cys Leu Val Ser Gly Trp Gly Thr
180 185 190
Thr Lys Ser Pro Gln Val His Phe Pro Lys Val Leu Gln Cys Leu Asn
195 200 205
Ile Ser Val Leu Ser Gln Lys Arg Cys Glu Asp Ala Tyr Pro Arg Gln
210 215 220
Ile Asp Asp Thr Met Phe Cys Ala Gly Asp Lys Ala Gly Arg Asp Ser
225 230 235 240

Cys Gln Gly Asp Ser Gly Gly Pro Val Val Cys Asn Gly Ser Leu Gln
 245 250 255
 Gly Leu Val Ser Trp Gly Asp Tyr Pro Cys Ala Arg Pro Asn Arg Pro
 260 265 270
 Gly Val Tyr Thr Asn Leu Cys Lys Phe Thr Lys Trp Ile Gln Glu Thr
 275 280 285
 Ile Gln Ala Asn Ser
 290

<210> 1692
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1692
 Met Ala Thr Ala Arg Pro Pro Trp Met Trp Val Leu Cys Ala Leu Ile
 1 5 10 15
 Thr Ala Leu Leu Leu Gly Val Thr Glu His Val Leu Ala Asn Asn Asp
 20 25 30
 Val Ser Cys Asp His Pro Ser Asn Thr Val Pro Ser Gly Ser Asn Gln
 35 40 45
 Asp Leu Gly Ala Gly Ala Gly Arg Arg Pro Val Gly
 50 55 60

<210> 1693
 <211> 243
 <212> PRT
 <213> Homo sapiens

<400> 1693
 Met Gly Thr Leu Pro Trp Leu Leu Ala Phe Phe Ile Leu Gly Leu Gln
 1 5 10 15
 Ala Trp Asp Thr Pro Thr Ile Val Ser Arg Lys Glu Trp Gly Ala Arg
 20 25 30
 Pro Leu Ala Cys Arg Ala Leu Leu Thr Leu Pro Val Ala Tyr Ile Ile
 35 40 45
 Thr Asp Gln Leu Pro Gly Met Gln Cys Gln Gln Gln Ser Val Cys Ser
 50 55 60
 Gln Met Leu Arg Gly Leu Gln Ser His Ser Val Tyr Thr Ile Gly Trp
 65 70 75 80
 Cys Asp Val Ala Tyr Asn Phe Leu Val Gly Asp Asp Gly Arg Val Tyr
 85 90 95

Glu Gly Val Gly Trp Asn Ile Gln Gly Leu His Thr Gln Gly Tyr Asn
 100 105 110
 Asn Ile Ser Leu Gly Ile Ala Phe Phe Gly Asn Lys Ile Ser Ser Ser
 115 120 125
 Pro Ser Pro Ala Ala Leu Ser Ala Ala Glu Gly Leu Ile Ser Tyr Ala
 130 135 140
 Ile Gln Lys Gly His Leu Ser Pro Arg Tyr Ile Gln Pro Leu Leu Leu
 145 150 155 160
 Lys Glu Glu Thr Cys Leu Asp Pro Gln His Pro Val Met Pro Arg Lys
 165 170 175
 Val Cys Pro Asn Ile Ile Lys Arg Ser Ala Trp Glu Ala Arg Glu Thr
 180 185 190
 His Cys Pro Lys Met Asn Leu Pro Ala Lys Tyr Val Ile Ile Ile His
 195 200 205
 Thr Ala Gly Thr Ser Cys Thr Val Ser Thr Asp Cys Gln Thr Val Val
 210 215 220
 Arg Asn Ile Gln Ser Phe His Met Asp Thr Arg Asn Phe Cys Asp Ile
 225 230 235 240
 Gly Tyr Gln

<210> 1694
 <211> 154
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (150)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1694
 Met Ala Arg His Gly Leu Pro Leu Leu Pro Leu Leu Ser Leu Leu Val
 1 5 10 15
 Gly Ala Trp Leu Lys Leu Gly Asn Gly Gln Ala Thr Ser Met Val Gln
 20 25 30
 Leu Gln Gly Gly Arg Phe Leu Met Gly Thr Asn Ser Pro Asp Ser Arg
 35 40 45
 Asp Gly Glu Gly Pro Val Arg Glu Ala Thr Val Lys Pro Phe Ala Ile
 50 55 60
 Asp Ile Phe Pro Val Thr Asn Lys Asp Phe Arg Asp Phe Val Arg Glu

65		70		75		80									
Lys	Lys	Tyr	Arg	Thr	Glu	Ala	Glu	Met	Phe	Gly	Trp	Ser	Phe	Val	Phe
				85					90					95	
Glu	Asp	Phe	Val	Ser	Asp	Glu	Leu	Arg	Asn	Lys	Ala	Thr	Gln	Pro	Met
			100					105					110		
Lys	Ser	Val	Leu	Trp	Trp	Leu	Pro	Val	Glu	Lys	Ala	Phe	Trp	Arg	Gln
		115					120					125			
Pro	Ala	Gly	Pro	Gly	Ser	Gly	Ile	Arg	Glu	Arg	Leu	Glu	His	Pro	Val
	130					135					140				
Leu	His	Val	Ser	Trp	Xaa	Asp	Ala	Arg	Ala						
145						150									

<210> 1695
 <211> 120
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (103)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1695
Met Gly Thr Val Ser Ser Arg Arg Ser Trp Trp Pro Leu Pro Leu Leu
1 5 10 15
Leu Leu Leu Leu Leu Leu Leu Gly Pro Ala Gly Ala Arg Ala Gln Glu
20 25 30
Asp Glu Asp Gly Asp Tyr Glu Glu Leu Val Leu Ala Leu Arg Ser Glu
35 40 45
Glu Asp Gly Leu Ala Glu Ala Pro Glu His Gly Thr Thr Ala Thr Phe
50 55 60
His Arg Cys Ala Lys Asp Pro Trp Arg Leu Pro Gly Thr Tyr Val Val
65 70 75 80
Val Leu Lys Glu Glu Thr His Leu Ser Gln Ser Glu Arg Thr Ala Arg
85 90 95
Arg Leu Gln Ala Gln Ala Xaa Arg Arg Gly Tyr Leu Pro Arg Ser Cys
100 105 110
Met Ser Ser Met Ala Phe Phe Leu
115 120

<210> 1696

<211> 269
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (236)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (257)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1696
 Met Gly Thr Val Ser Ser Arg Arg Ser Trp Trp Pro Leu Pro Leu Leu
 1 5 10 15
 Leu Leu Leu Leu Leu Leu Leu Gly Pro Ala Gly Ala Arg Ala Gln Glu
 20 25 30
 Asp Glu Asp Gly Asp Tyr Glu Glu Leu Val Leu Ala Leu Arg Ser Glu
 35 40 45
 Glu Asp Gly Leu Ala Glu Ala Pro Glu His Gly Thr Thr Ala Thr Phe
 50 55 60
 His Arg Cys Ala Lys Asp Pro Trp Arg Leu Pro Gly Thr Tyr Val Val
 65 70 75 80
 Val Leu Lys Glu Glu Thr His Leu Ser Gln Ser Glu Arg Thr Ala Arg
 85 90 95
 Arg Leu Gln Ala Gln Ala Ala Arg Arg Gly Tyr Leu Thr Lys Ile Leu
 100 105 110
 His Val Phe His Gly Leu Leu Pro Gly Phe Leu Val Lys Met Ser Gly
 115 120 125
 Asp Leu Leu Glu Leu Ala Leu Lys Leu Pro His Val Asp Tyr Ile Glu
 130 135 140
 Glu Asp Ser Ser Val Phe Ala Gln Ser Ile Pro Trp Asn Leu Glu Arg
 145 150 155 160
 Ile Thr Pro Pro Arg Tyr Arg Ala Asp Glu Tyr Gln Pro Pro Asp Gly
 165 170 175
 Gly Ser Leu Val Glu Val Tyr Leu Leu Asp Thr Ser Ile Gln Ser Asp
 180 185 190
 His Arg Glu Ile Glu Gly Arg Val Met Val Thr Asp Phe Glu Asn Val
 195 200 205
 Pro Glu Glu Asp Gly Thr Arg Phe His Arg Gln Ala Ser Lys Cys Asp
 210 215 220

Ser His Gly Pro Thr Trp Gln Gly Trp Ser Ala Xaa Gly Met Pro Ala
 225 230 235 240

Trp Pro Arg Val Pro Ala Cys Ala Ala CysAla Cys Phe Pro Lys Lys
 245 250 255

Xaa Pro Leu Leu Gly Gly Pro Pro Gln Lys Lys Gly Gly
 260 265

<210> 1697
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 1697
 Gly Trp Cys Ser Arg Arg Asp Ser Cys Trp Pro Ser Pro Pro Thr Met
 1 5 10 15

Pro

<210> 1698
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 1698
 Thr Trp Trp Pro Pro Cys Pro Pro Ala Pro Met Gly Gln Val Gly Ser
 1 5 10 15

Cys Phe Ala Gly Leu Cys Gly Gln His Thr Arg Gly Leu His Gly Trp
 20 25 30

Pro Gln Pro Ser Pro Ala Ala Pro Gln Met Arg Ser Cys
 35 40 45

<210> 1699
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1699
 Met Pro Cys Thr Cys Thr Trp Arg Asn Trp Arg Gln Trp Ile Arg Pro
 1 5 10 15

Leu Val Ala Val Ile Tyr Leu Val Ser Ile Val Val Ala Val Pro Leu
 20 25 30

Cys Val Trp Glu Leu Gln Lys Leu Glu Val Gly Ile His Thr Lys Ala
 35 40 45

Trp Phe Ile Ala Gly Ile Phe Leu Leu
 50 55

<210> 1700
 <211> 107
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (92)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1700
 Met Val Arg Tyr Thr Tyr Ser Met Leu Ser Val Ile Gly Ile Ser Tyr
 1 5 10 15
 Ala Val Leu Thr Trp Leu Ser Gln Thr Leu Trp Met Pro Ile Tyr Pro
 20 25 30
 Leu Cys Val Leu Ala Glu Ala Phe Ala Ile Tyr Gln Ser Leu Pro Tyr
 35 40 45
 Phe Glu Ser Phe Gly Thr Tyr Ser Thr Lys Leu Pro Phe Asp Leu Ser
 50 55 60
 Ile Tyr Phe Pro Tyr Val Leu Lys Ile Tyr Leu Met Met Leu Ile
 65 70 75 80
 Gly Met Tyr Phe Thr Tyr Ser His Leu Tyr Ser Xaa Arg Arg Asp Ile
 85 90 95
 Leu Gly Ile Phe Pro Ile Lys Lys Lys Lys Met
 100 105

<210> 1701
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 1701
 Met Val Arg Tyr Thr Tyr Ser Met Leu Ser Val Ile Gly Ile Ser Tyr
 1 5 10 15
 Ala Val Leu Thr Trp Ala Gln Ser Asn Thr Met Asp Ala Asn Leu Ser
 20 25 30
 Phe Val Cys Ser Cys
 35

<210> 1702

<211> 104
 <212> PRT
 <213> Homo sapiens

<400> 1702
 Met Leu Trp Leu Leu Phe Phe Leu Val Thr Ala IleHis Ala Glu Leu
 1 5 10 15
 Cys Gln Pro Gly Ala Glu Asn Ala Phe Lys Val Arg Leu Ser Ile Arg
 20 25 30
 Thr Ala Leu Gly Asp Lys Ala Tyr Ala Trp Asp Thr AsnGlu Glu Tyr
 35 40 45
 Leu Phe Lys Ala Met Val Ala Phe Ser Met Arg Lys Val Pro Asn Arg
 50 55 60
 Glu Ala Thr Glu Ile Ser His Val Leu Leu Cys Asn Val Thr Gln Arg
 65 70 75 80
 Tyr His Ser Gly Leu Trp Leu Gln Thr Leu Gln Lys Ile Thr Pro Phe
 85 90 95
 Leu Leu Leu Arg Cys Asn Gln Pro
 100

<210> 1703
 <211> 94
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (30)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1703
 Ala Xaa Pro Ser Ser Gly Ala Pro Phe Leu Leu Leu Leu Phe Lys
 1 5 10 15
 Leu Trp Leu Val Val Pro Gly Ser Ser Thr Asp Ile Ser Xaa Asp Trp
 20 25 30
 Glu Lys Asp Phe Xaa Leu Asp Met Thr Glu Glu Glu Val Gln Met Ala
 35 40 45

Leu Ser Lys Val Asp Ala Ser Gly Glu Val Ser Gly Pro Tyr Gly Ser
 50 55 60
 Glu Gly Ser Glu Pro Asn Gly Pro Gly Cys Glu Ser Ser Pro Gln Pro
 65 70 75 80
 Ala Gln Leu Ser Pro Gln Glu Gly Pro Cys Ser Cys Leu Arg
 85 90

<210> 1704
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1704
 Met Leu Ser Ile Ile Pro Asn Asp Arg Leu Phe Ile Asn Leu Ile Phe
 1 5 10 15
 Leu Ser Asn Phe Ile Pro Ser Val Leu Trp Glu Pro Ala Gly Gln Met
 20 25 30
 Trp Tyr Thr His Val Arg Tyr Pro Ser Gly Arg Leu Leu Ser Leu
 35 40 45

<210> 1705
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 1705
 Met Ser Leu Ile Trp Arg Asp Val Tyr Leu Tyr Gly Cys Gly Cys Ile
 1 5 10 15
 Cys His Gly Arg Cys Cys Ala Gly Phe Pro Gln His Ser Arg His Val
 20 25 30
 Trp Arg Thr Asn Ala Gly Leu Ile Leu Pro Gly Asn Arg Val Pro Phe
 35 40 45
 Cys Glu Leu Glu Gly Cys Thr Arg Arg Ser Ser Tyr Trp Asn His Leu
 50 55 60
 Val Ile Leu Gly Gly His Trp Gly Leu His Leu Pro Cys Thr Ser Leu
 65 70 75 80

<210> 1706
 <211> 47

<212> PRT
<213> Homo sapiens

<400> 1706
Ile Leu Lys Ser Glu Pro Lys Leu Val Ser Phe Ile Asn Ile Leu Gly
1 5 10 15
Lys Glu Glu Arg Lys Lys Glu Gly Gly Arg Glu Arg Lys Lys Glu Arg
20 25 30
Lys Lys Glu Arg Lys Lys Glu Arg Lys Lys Lys Lys Lys Asn Ser
35 40 45

<210> 1707
<211> 142
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring amino acids

<400> 1707
Met Tyr Val Thr Leu Val Phe Arg Val Lys Gly Ser Arg Leu Val Lys
1 5 10 15
Pro Ser Leu Cys Leu Ala Leu Leu Cys Pro Ala Phe Leu Val Gly Val
20 25 30
Val Arg Val Ala Glu Tyr Arg Asn His Trp Ser Asp Val Leu Ala Gly
35 40 45
Phe Leu Thr Gly Ala Ala Ile Ala Thr Phe Leu Val Thr Cys Val Val
50 55 60
His Asn Phe Gln Xaa Arg Pro Pro Ser Gly Arg Xaa Leu Ser Pro Gln
65 70 75 80
Ser Ala Tyr Pro Arg Leu Pro Gly Pro Xaa Phe Pro His Leu His Asn

				85						90					95
Gly	Gly	Asp	His	Pro	Cys	Pro	Ala	Gly	Cys	Arg	Xaa	Gly	Cys	Glu	Ser
			100					105					110		
Ser	Ala	Trp	Met	Gln	Pro	Gly	Gly	Ser	His	Arg	Ala	Ala	Phe	Thr	Gly
			115				120					125			
Leu	Ala	Leu	Pro	Trp	Ala	Gly	Gly	Arg	Pro	His	Pro	Lys	Arg		
	130					135					140				

<210> 1708
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 1708
 Met Ala Lys Arg Thr Phe Ser Asn Leu Glu Thr Phe Leu Ile Phe Leu
 1 5 10 15
 Leu Val Met Met Ser Ala Ile Thr Val Ala Leu Leu Ser Leu Leu Phe
 20 25 30
 Ile Thr Ser Gly Thr Ile Glu Asn His Lys Asp Leu Gly Gly His Phe
 35 40 45
 Phe Ser Thr Thr Gln Ser Pro Pro Ala Thr Gln Gly Ser Thr Ala Ala
 50 55 60
 Gln Arg Ser Thr Ala Thr Gln His Ser Thr Ala Thr Gln Ser Ser Asn
 65 70 75 80
 Ser Gln Leu Lys Leu Leu Gln Cys Leu
 85

<210> 1709
 <211> 486
 <212> PRT
 <213> Homo sapiens

<400> 1709
 Met Gln Pro Ser Gly Leu Glu Gly Pro Gly Thr Phe Gly Arg Trp Pro
 1 5 10 15
 Leu Leu Ser Leu Leu Leu Leu Leu Leu Leu Gln Pro Val Thr Cys
 20 25 30
 Ala Tyr Thr Thr Pro Gly Pro Pro Arg Ala Leu Thr Thr Leu Gly Ala
 35 40 45
 Pro Arg Ala His Thr Met Pro Gly Thr Tyr Ala Pro Ser Thr Thr Leu
 50 55 60

Ser Ser Pro Ser Thr Gln Gly Leu Gln Glu Gln Ala Arg Ala Leu Met
 65 70 75 80
 Arg Asp Phe Pro Leu Val Asp Gly His Asn Asp Leu Pro Leu Val Leu
 85 90 95
 Arg Gln Val Tyr Gln Lys Gly Leu Gln Asp Val Asn Leu Arg Asn Phe
 100 105 110
 Ser Tyr Gly Gln Thr Ser Leu Asp Arg Leu Arg Asp Gly Leu Val Gly
 115 120 125
 Ala Gln Phe Trp Ser Ala Tyr Val Pro Cys Gln Thr Gln Asp Arg Asp
 130 135 140
 Ala Leu Arg Leu Thr Leu Glu Gln Ile Asp Leu Ile Arg Arg Met Cys
 145 150 155 160
 Ala Ser Tyr Ser Glu Leu Glu Leu Val Thr Ser Ala Lys Ala Leu Asn
 165 170 175
 Asp Thr Gln Lys Leu Ala Cys Leu Ile Gly Val Glu Gly Gly His Ser
 180 185 190
 Leu Asp Asn Ser Leu Ser Ile Leu Arg Thr Phe Tyr Met Leu Gly Val
 195 200 205
 Arg Tyr Leu Thr Leu Thr His Thr Cys Asn Thr Pro Trp Ala Glu Ser
 210 215 220
 Ser Ala Lys Gly Val His Ser Phe Tyr Asn Asn Ile Ser Gly Leu Thr
 225 230 235 240
 Asp Phe Gly Glu Lys Val Val Ala Glu Met Asn Arg Leu Gly Met Met
 245 250 255
 Val Asp Leu Ser His Val Ser Asp Ala Val Ala Arg Arg Ala Leu Glu
 260 265 270
 Val Ser Gln Ala Pro Val Ile Phe Ser His Ser Ala Ala Arg Gly Val
 275 280 285
 Cys Asn Ser Ala Arg Asn Val Pro Asp Asp Ile Leu Gln Leu Leu Lys
 290 295 300
 Lys Asn Gly Gly Val Val Met Val Ser Leu Ser Met Gly Val Ile Gln
 305 310 315 320
 Cys Asn Pro Ser Ala Asn Val Ser Thr Val Ala Asp His Phe Asp His
 325 330 335
 Ile Lys Ala Val Ile Gly Ser Lys Phe Ile Gly Ile Gly Gly Asp Tyr
 340 345 350
 Asp Gly Ala Gly Lys Phe Pro Gln Gly Leu Glu Asp Val Ser Thr Tyr
 355 360 365

Pro Val Leu Ile Glu Glu Leu Leu Ser Arg Gly Trp Ser Glu Glu Bu
 370 375 380
 Leu Gln Gly Val Leu Arg Gly Asn Leu Leu Arg Val Phe Arg Gln Val
 385 390 395 400
 Glu Lys Val Gln Glu Glu Asn Lys Trp Gln Ser Pro Leu Glu Asp Lys
 405 410 415
 Phe Pro Asp Glu Gln Leu Ser Ser Ser Cys His Ser Asp Leu Ser Arg
 420 425 430
 Leu Arg Gln Arg Gln Ser Leu Thr Ser Gly Gln Glu Leu Thr Glu Ile
 435 440 445
 Pro Ile His Trp Thr Ala Lys Leu Pro Ala Lys Trp Ser Val Ser Glu
 450 455 460
 Ser Ser Pro His Met Ala Pro Val Leu Ala Val Val Ala Thr Phe Pro
 465 470 475 480
 Val Leu Ile Leu Trp Leu
 485

<210> 1710

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1710

Met Gly Ser Thr Trp Gly Ser Pro Gly Trp Val Arg Leu Ala Leu Cys
 1 5 10 15

Leu Thr Gly Leu Val Leu Ser Leu Tyr Ala Leu His Val Lys Ala Ala
 20 25 30

Arg Ala Arg Asp Arg Asp Tyr Arg Ala Leu Cys Asp Val Gly Thr Ala
 35 40 45

Ile Ser Cys Ser Arg Val Phe Ser Ser Arg Leu Po Xaa Asp Thr Leu
 50 55 60

Gly Leu Cys Xaa Asp Ala Ala Glu Leu Pro Gly Val Ser Arg Trp Phe
 65 70 75 80

Cys Leu Pro Gly Leu Asp Pro Val Leu Arg Ala Leu
85 90

<210> 1711
<211> 151
<212> PRT
<213> Homo sapiens

<400> 1711
Met Arg Arg Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp
1 5 10 15
Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val
20 25 30
Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg
35 40 45
Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro
50 55 60
Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Gln
65 70 75 80
Gly Arg Gly Pro Ile Leu Pro Gly Thr Lys Ala Trp Met Glu Thr Glu
85 90 95
Asp Thr Leu Gly Arg Val Leu Ser Pro Glu Pro Asp His Asp Ser Leu
100 105 110
Tyr His Pro Pro Pro Glu Glu Asp Gln Gly Glu Glu Arg Pro Arg Leu
115 120 125
Trp Val Met Pro Asn His Gln Val Leu Leu Gly Pro Glu Glu Asp Gln
130 135 140
Asp His Ile Tyr His Pro Gln
145 150

<210> 1712
<211> 21
<212> PRT
<213> Homo sapiens

<400> 1712
Asp Leu His Ile Lys Leu Leu Glu His Tyr Cys Leu Thr Ser Cys Lys
1 5 10 15
Lys Val Leu Gln Leu
20

<210> 1713
 <211> 67
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1713
 Pro Gln Ser Pro Gln Arg Gly Cys Tyr Ser Met Leu Xaa Val Leu Ser
 1 5 10 15
 Val Ser His Pro Gln Pro Asn Lys Trp Arg Cys Val Val Pro Arg Gly
 20 25 30
 Pro Phe Ser His Cys Leu Ala Ser Arg Arg Gly Val Leu Gln Gly Tyr
 35 40 45
 Ser Phe Val Cys Thr Cys Arg Leu Val Gly Pro Glu Phe Phe Ser His
 50 55 60
 Val Gln Glu
 65

<210> 1714
 <211> 91
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1714
 Val Trp Arg Arg Cys Val Ser Trp Arg Ser Ile Arg Ala Gln Val Thr
 1 5 10 15
 Phe Pro Glu Asp Phe Leu Ser Leu Ser Ser Val Gln Phe Gln Val
 20 25 30
 Ile His Val Leu Leu Asp Pro Gly Xaa Thr Gly Ile Ser Thr Asp Leu
 35 40 45
 Leu Ala Ser Phe Gly Leu Glu Tyr His Ser Trp Leu Gly Ala Glu Ala
 50 55 60
 Ala Gly Leu Ile Val Ile Tyr His Lys Val Ala Arg Lys Leu Pro Arg
 65 70 75 80
 Gly Val Arg Lys Ala Ala Gly Gly Gly Arg Val
 85 90

<210> 1715
 <211> 190
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (25)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1715
 Met Pro Val Pro Thr Leu Cys Leu Leu Trp Ala Leu Ala Met Val Thr
 1 5 10 15
 Arg Pro Ala Ser Ala Ala Pro Met Xaa Gly Pro Glu Leu Ala Gln His
 20 25 30
 Glu Glu Leu Thr Leu Leu Phe His Gly Thr Leu Gln Leu Gly Gln Ala
 35 40 45
 Leu Asn Gly Val Tyr Arg Thr Thr Glu Gly Arg Leu Thr Lys Ala Arg
 50 55 60
 Asn Ser Leu Gly Leu Tyr Gly Arg Thr Ile Glu Leu Leu Gly Gln Glu
 65 70 75 80
 Val Ser Arg Gly Arg Asp Ala Ala Gln Glu Leu Arg Ala Ser Leu Leu
 85 90 95
 Glu Thr Gln Met Glu Glu Asp Ile Leu Gln Leu Gln Ala Glu Ala Thr
 100 105 110
 Ala Glu Val Leu Gly Glu Val Ala Gln Ala Gln Lys Val Leu Arg Asp
 115 120 125
 Ser Val Gln Arg Leu Glu Val Gln Leu Arg Ser Ala Trp Leu Gly Pro
 130 135 140
 Ala Tyr Arg Glu Phe Glu Val Leu Lys Ala His Ala Asp Lys Gln Glu
 145 150 155 160
 Pro Thr Ser Tyr Gly Pro His Arg Pro Arg Gln Arg Gln Arg Arg Glu
 165 170 175
 Met Val Ala Gln Gln His Arg Leu Arg Gln Ile Gln Glu Arg
 180 185 190

<210> 1716
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 1716

Met Glu Pro Ala Met Val Leu Lys Phe Leu Ser Ser Leu Pro Glu Asn
 1 5 10 15
 Leu Phe Leu Pro Ser Leu Leu Phe Phe Ala Trp Leu Cys Trp Asn Met
 20 25 30
 Val Cys Gly Ser Pro Val Ser Cys Pro Tyr
 35 40

<210> 1717
 <211> 488
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (344)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (416)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (429)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (430)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1717
 Met Ile Leu Ser Leu Leu Phe Ser Leu Gly Gly Pro Leu Gly Trp Gly
 1 5 10 15
 Leu Leu Gly Ala Trp Ala Gln Ala Ser Ser Thr Ser Leu Ser Asp Leu
 20 25 30
 Gln Ser Ser Arg Thr Pro Gly Val Trp Lys Ala Glu Ala Gln Asp Thr
 35 40 45
 Ser Lys Asp Pro Val Gly Arg Asn Trp Cys Pro Tyr Pro Met Ser Lys
 50 55 60
 Leu Val Thr Leu Leu Ala Leu Cys Lys Thr Glu Lys Phe Leu Ile His
 65 70 75 80
 Ser Gln Gln Pro Cys Pro Gln Gly Ala Pro Asp Cys Gln Lys Val Lys
 85 90 95
 Val Met Tyr Arg Met Ala His Lys Pro Val Tyr Gln Val Lys Gln Lys
 100 105 110

Val Leu Thr Ser Leu Ala Trp Arg Cys Cys Pro Gly Tyr Thr Gly Pro
115 120 125
Asn Cys Glu His His Asp Ser Met Ala Ile Pro Glu Pro Ala Asp Pro
130 135 140
Gly Asp Ser His Gln Glu Pro Gln Asp Gly Pro Val Ser Phe Lys Pro
145 150 155 160
Gly His Leu Ala Ala Val Ile Asn Glu Val Glu Val Gln Gln Glu Gln
165 170 175
Gln Glu His Leu Leu Gly Asp Leu Gln Asn Asp Val His Arg Val Ala
180 185 190
Asp Ser Leu Pro Gly Leu Trp Lys Ala Leu Pro Gly Asn Leu Thr Ala
195 200 205
Ala Val Met Glu Ala Asn Gln Thr Gly His Glu Phe Pro Asp Arg Ser
210 215 220
Leu Glu Gln Val Leu Leu Pro His Val Asp Thr Phe Leu Gln Val His
225 230 235 240
Phe Ser Pro Ile Trp Arg Ser Phe Asn Gln Ser Leu His Ser Leu Thr
245 250 255
Gln Ala Ile Arg Asn Leu Ser Leu Asp Val Glu Ala Asn Arg Gln Ala
260 265 270
Ile Ser Arg Val Gln Asp Ser Ala Val Ala Arg Ala Asp Phe Gln Glu
275 280 285
Leu Gly Ala Lys Phe Glu Ala Lys Val Gln Glu Asn Thr Gln Arg Val
290 295 300
Gly Gln Leu Arg Gln Asp Val Glu Glu Arg Leu His Ala Gln His Phe
305 310 315 320
Thr Leu His Arg Ser Ile Ser Glu Leu Gln Ala Asp Val Asp Thr Lys
325 330 335
Leu Lys Arg Leu His Lys Ala Xaa Glu Ala Pro Gly Thr Asn Gly Ser
340 345 350
Leu Val Leu Ala Thr Pro Gly Ala Gly Ala Arg Pro Glu Pro Asp Ser
355 360 365
Leu Gln Ala Arg Leu Gly Gln Leu Gln Arg Asn Leu Ser Glu Leu His
370 375 380
Met Thr Thr Ala Arg Arg Glu Glu Glu Leu Gln Tyr Thr Leu Glu Asp
385 390 395 400
Met Arg Ala Thr Leu Thr Arg His Val Asp Glu Ile Lys Glu Leu Xaa
405 410 415

Ser Glu Ser Asp Glu Thr Phe Asp Gln Ile Ser Lys Xaa Xaa Arg Gln
 420 425 430
 Val Glu Glu Leu Gln Val Asn His Thr Ala Leu Arg Glu Leu Arg Val
 435 440 445
 Ile Leu Met Glu Lys Ser Leu Ile Met Glu Glu Asn Lys Glu Glu Val
 450 455 460
 Glu Arg Gln Leu Leu Glu Leu Asn Leu Thr Leu Gln His Leu Gln Gly
 465 470 475 480
 Gly Met Pro Thr Ser Ser Ser Thr
 485

<210> 1718
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 1718
 Met Ile Arg Ile Gln Phe Leu His Leu Phe Leu Trp Val Gly Phe Ile
 1 5 10 15
 Phe Arg Gln Pro Pro Ser Ser Tyr Pro Gln Asp Gly Arg Asp Ser Pro
 20 25 30
 Trp Ser Phe Pro Cys Arg Asp Arg Ser Pro Gly Asn Asn Thr Ser Ile
 35 40 45
 Pro Ser His Glu Thr Val Leu Asn Phe Ile Leu Thr
 50 55 60

<210> 1719
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1719
 Met Ser Val Trp Pro Arg Ser Thr Leu Leu Phe Cys Leu Leu Ser Leu
 1 5 10 15
 Ser Thr Gly Leu Phe Leu Asp Lys Leu Gly Ile Ile Ile Pro Ile Leu
 20 25 30
 Leu Cys Gly Trp Lys Leu Asn Val Ile Met Met Cys Val Arg Cys Leu
 35 40 45
 His Ser Ala Trp Arg Tyr
 50

<210> 1720
 <211> 215
 <212> PRT
 <213> Homo sapiens

<400> 1720
 Met Tyr Leu Ser Ile Ile Phe Leu Ala Phe Val Ser Ile Asp Arg Cys
 1 5 10 15
 Leu Gln Leu Thr His Ser Cys Lys Ile Tyr Arg Ile Gln Glu Pro Gly
 20 25 30
 Phe Ala Lys Met Ile Ser Thr Val Val Trp Leu Met Val Leu Leu Ile
 35 40 45
 Met Val Pro Asn Met Met Ile Pro Ile Lys Asp Ile Lys Glu Lys Ser
 50 55 60
 Asn Val Gly Cys Met Glu Phe Lys Lys Glu Phe Gly Arg Asn Trp His
 65 70 75 80
 Leu Leu Thr Asn Phe Ile Cys Val Ala Ile Phe Leu Asn Phe Ser Ala
 85 90 95
 Ile Ile Leu Ile Ser Asn Cys Leu Val Ile Arg Gln Leu Tyr Arg Asn
 100 105 110
 Lys Asp Asn Glu Asn Tyr Pro Asn Val Lys Lys Ala Leu Ile Asn Ile
 115 120 125
 Leu Leu Val Thr Thr Gly Tyr Ile Ile Cys Phe Val Pro Tyr His Ile
 130 135 140
 Val Arg Ile Pro Tyr Thr Leu Ser Gln Thr Glu Val Ile Thr Asp Cys
 145 150 155 160
 Ser Thr Arg Ile Ser Leu Phe Lys Ala Lys Glu Ala Thr Leu Leu Leu
 165 170 175
 Ala Val Ser Asn Leu Cys Phe Asp Pro Ile Leu Tyr Tyr His Leu Ser
 180 185 190
 Lys Ala Phe Arg Ser Lys Val Thr Glu Thr Phe Ala Ser Pro Lys Glu
 195 200 205
 Thr Lys Val Arg Lys Lys Asn
 210 215

<210> 1721
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 1721

Met Leu Leu Ala Thr Leu Leu Leu Leu Leu Leu Gly Gly Ala Leu Ala
 1 5 10 15
 His Pro Asp Arg Ile Ile Phe Pro Asn His Ala Cys Glu Asp Pro Pro
 20 25 30
 Ala Val Leu Leu Glu Val Gln Gly Thr Leu Gln Arg Pro Leu Val Arg
 35 40 45
 Asp Ser Arg Thr Ser Pro Ala Asn Cys Thr Trp Leu Thr Lys Arg Val
 50 55 60
 Gln Gln Met Leu Leu Phe His Ser Tyr Gly Ile Ala Gln
 65 70 75

<210> 1722

<211> 306

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (180)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (182)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (188)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (208)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (210)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (211)

<223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (218)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (219)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 1722
 Met Ala Leu Arg Leu Leu Arg Arg Ala Ala Arg Gly Ala Ala Ala Ala
 1 5 10 15
 Ala Leu Leu Arg Leu Lys Ala Ser Leu Ala Ala Asp Ile Pro Arg Leu
 20 25 30
 Gly Tyr Ser Ser Ser Ser His His Lys Tyr Ile Pro Arg Arg Ala Val
 35 40 45
 Leu Tyr Val Pro Gly Asn Asp Glu Lys Lys Ile Lys Lys Ile Pro Ser
 50 55 60
 Leu Asn Val Asp Cys Ala Val Leu Asp Cys Glu Asp Gly Val Ala Ala
 65 70 75 80
 Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu Glu Asp
 85 90 95
 Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser Val Ser
 100 105 110
 Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser Arg Val
 115 120 125
 Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu Glu Ile
 130 135 140
 Gln Trp Ala Val Cys Glu Glu Thr Leu Lys Val Gly Pro Gln Val Gly
 145 150 155 160
 Leu Phe Leu Asp Ala Val Arg Phe Trp Arg Xaa Arg Leu Ser Ser His
 165 170 175
 Ile Gly Ala Xaa Ser Xaa Lys Glu Thr Leu Asp Xaa Leu Tyr Ala Arg
 180 185 190
 Gln Lys Ile Val Val Ile Ala Lys Ala Phe Gly Leu Gln Ala Val Xaa
 195 200 205
 Leu Xaa Xaa Ile Asp Phe Arg Asp Gly Xaa Xaa Leu Leu Arg Gln Ser
 210 215 220
 Arg Glu Gly Ala Ala Met Gly Phe Thr Gly Lys Gln Val Ile His Pro
 225 230 235 240
 Asn Gln Ile Ala Val Val Gln Glu Gln Phe Ser Pro Ser Pro Glu Lys

65 70 75 80
 Ile Ile Ser His Ala Trp Leu Gly Gly Ser His Ala His Gly Ala Ser
 85 90 95
 Leu Ile Ala Ser Thr Ala Val
 100

<210> 1725
 <211> 957
 <212> PRT
 <213> Homo sapiens

<400> 1725
 Met Ala Leu Leu His Trp Gly Ala Leu Trp Arg Gln Leu Ala Ser Pro
 1 5 10 15
 Cys Gly Ala Trp Ala Leu Arg Asp Thr Pro Ile Pro Arg Trp Lys Leu
 20 25 30
 Ser Ser Ala Glu Thr Tyr Ser Arg Met Arg Leu Lys Leu Val Pro Asn
 35 40 45
 His His Phe Asp Pro His Leu Glu Ala Ser Ala Leu Arg Asp Asn Leu
 50 55 60
 Gly Glu Val Pro Leu Thr Pro Thr Glu Glu Ala Ser Leu Pro Leu Ala
 65 70 75 80
 Val Thr Lys Glu Ala Lys Val Ser Thr Pro Pro Glu Leu Leu Gln Glu
 85 90 95
 Asp Gln Leu Gly Glu Asp Glu Leu Ala Glu Leu Glu Thr Pro Met Glu
 100 105 110
 Ala Ala Glu Leu Asp Glu Gln Arg Gu Lys Leu Val Leu Ser Ala Glu
 115 120 125
 Cys Gln Leu Val Thr Val Val Ala Val Val Pro Gly Leu Leu Glu Val
 130 135 140
 Thr Thr Gln Asn Val Tyr Phe Tyr Asp Gly Ser Thr Glu Arg Val Glu
 145 150 155 160
 Thr Glu Glu Gly Ile Gly Tyr Asp Phe Arg Arg Pro Leu Ala Gln Leu
 165 170 175
 Arg Glu Val His Leu Arg Arg Phe Asn Leu Arg Arg Ser Ala Leu Glu
 180 185 190
 Leu Phe Phe Ile Asp Gln Ala Asn Tyr Phe Leu Asn Phe Pro Cys Lys
 195 200 205
 Val Gly Thr Thr Pro Val Ser Ser Pro Ser Gln Thr Pro Arg Pro Gln
 210 215 220

Pro Gly Pro Ile Pro Pro His Thr Gln Val Arg Asn Gln Val Tyr Ser
 225 230 235 240
 Trp Leu Leu Arg Leu Arg Pro Pro Ser Gln Gly Tyr Leu Ser Ser Arg
 245 250 255
 Ser Pro Gln Glu Met Leu Arg Ala Ser Gly Leu Thr Gln Lys Trp Val
 260 265 270
 Gln Arg Glu Ile Ser Asn Phe Glu Tyr Leu Met Gln Leu Asn Thr Ile
 275 280 285
 Ala Gly Arg Thr Tyr Asn Asp Leu Ser Gln Tyr Pro Val Phe Pro Trp
 290 295 300
 Val Leu Gln Asp Tyr Val Ser Pro Thr Leu Asp Leu Ser Asn Pro Ala
 305 310 315 320
 Val Phe Arg Asp Leu Ser Lys Pro Ile Gly Val Val Asn Pro Lys His
 325 330 335
 Ala Gln Leu Val Arg Glu Lys Tyr Glu Ser Phe Glu Asp Pro Ala Gly
 340 345 350
 Thr Ile Asp Lys Phe His Tyr Gly Thr His Tyr Ser Asn Ala Ala Gly
 355 360 365
 Val Met His Tyr Leu Ile Arg Val Glu Pro Phe Thr Ser Leu His Val
 370 375 380
 Gln Leu Gln Ser Gly Arg Phe Asp Cys Ser Asp Arg Gln Phe His Ser
 385 390 395 400
 Val Ala Ala Ala Trp Gln Ala Arg Leu Glu Ser Pro Ala Asp Val Lys
 405 410 415
 Glu Leu Ile Pro Glu Phe Phe Tyr Phe Pro Asp Phe Leu Glu Asn Gln
 420 425 430
 Asn Gly Phe Asp Leu Gly Cys Leu Gln Leu Thr Asn Glu Lys Val Gly
 435 440 445
 Asp Val Val Leu Pro Pro Trp Ala Ser Ser Pro Glu Asp Phe Ile Gln
 450 455 460
 Gln His Arg Gln Ala Leu Glu Ser Glu Tyr Val Ser Ala His Leu His
 465 470 475 480
 Glu Trp Ile Asp Leu Ile Phe Gly Tyr Lys Gln Arg Gly Pro Ala Ala
 485 490 495
 Glu Glu Ala Leu Asn Val Phe Tyr Tyr Cys Thr Tyr Glu Gly Ala Val
 500 505 510
 Asp Leu Asp His Val Thr Asp Glu Arg Glu Arg Lys Ala Leu Glu Gly
 515 520 525

Ile Ile Ser Asn Phe Gly Gln Thr Pro Cys Gln Leu Leu Lys Glu Pro
 530 535 540
 His Pro Thr Arg Leu Ser Ala Glu Glu Ala Ala His Arg Leu Ala Arg
 545 550 555 560
 Leu Asp Thr Asn Ser Pro Ser Ile Phe Gln His Leu Asp Glu Leu Lys
 565 570 575
 Ala Phe Phe Ala Glu Val Val Ser Asp Gly Val Pro Leu Val Leu Ala
 580 585 590
 Leu Val Pro His Arg Gln Pro His Ser Phe Ile Thr Gln Gly Ser Pro
 595 600 605
 Asp Leu Leu Val Thr Val Ser Ala Ser Gly Leu Leu Gly Thr His Ser
 610 615 620
 Trp Leu Pro Tyr Asp Arg Asn Ile Ser Asn Tyr Phe Ser Phe Ser Lys
 625 630 635 640
 Asp Pro Thr Met Gly Ser His Lys Thr Gln Arg Leu Leu Ser Gly Pro
 645 650 655
 Trp Val Pro Gly Ser Gly Val Ser Gly Gln Ala Leu Ala Val Ala Pro
 660 665 670
 Asp Gly Lys Leu Leu Phe Ser Gly Gly His Trp Asp Gly Ser Leu Arg
 675 680 685
 Val Thr Ala Leu Pro Arg Gly Lys Leu Leu Ser Gln Leu Ser Cys His
 690 695 700
 Leu Asp Val Val Thr Cys Leu Ala Leu Asp Thr Cys Gly Ile Tyr Leu
 705 710 715 720
 Ile Ser Gly Ser Arg Asp Thr Thr Cys Met Val Trp Arg Leu Leu His
 725 730 735
 Gln Gly Gly Leu Ser Val Gly Leu Ala Pro Lys Pro Val Gln Val Leu
 740 745 750
 Tyr Gly His Gly Ala Ala Val Ser Cys Val Ala Ile Ser Thr Glu Leu
 755 760 765
 Asp Met Ala Val Ser Gly Ser Glu Asp Gly Thr Val Ile Ile His Thr
 770 775 780
 Val Arg Arg Gly Gln Phe Val Ala Ala Leu Arg Pro Leu Gly Ala Thr
 785 790 795 800
 Phe Pro Gly Pro Ile Phe His Leu Ala Leu Gly Ser Glu Gly Gln Ile
 805 810 815
 Val Val Gln Ser Ser Ala Trp Glu Arg Pro Gly Ala Gln Val Thr Tyr
 820 825 830

Ser Leu His Leu Tyr Ser Val Asn Gly Lys Leu Arg Ala Ser Leu Pro
 835 840 845
 Leu Ala Glu Gln Pro Thr Ala Leu Thr Val Thr Glu Asp Phe Val Leu
 850 855 860
 Leu Gly Thr Ala Gln Cys Ala Leu His Ile Leu Gln Leu Asn Thr Leu
 865 870 875 880
 Leu Pro Ala Ala Pro Pro Leu Pro Met Lys Val Ala Ile Arg Ser Val
 885 890 895
 Ala Val Thr Lys Glu Arg Ser His Val Leu Val Gly Leu Glu Asp Gly
 900 905 910
 Lys Leu Ile Val Val Val Ala Gly Gln Pro Ser Glu Val Arg Ser Ser
 915 920 925
 Gln Phe Ala Arg Lys Leu Trp Arg Ser Ser Arg Arg Ile Ser Gln Val
 930 935 940
 Ser Ser Gly Glu Thr Glu Tyr Asn Pro Thr Glu Ala Arg
 945 950 955

<210> 1726
 <211> 103
 <212> PRT
 <213> Homo sapiens

<400> 1726
 Met Leu Thr Phe Phe Met Ala Phe Leu Phe Asn Trp Ile Gly Phe Phe
 1 5 10 15
 Leu Ser Phe Cys Leu Thr Thr Ser Ala Ala Gly Arg Tyr Gly Ala Ile
 20 25 30
 Ser Gly Phe Gly Leu Ser Leu Ile Lys Trp Ile Leu Ile Val Arg Phe
 35 40 45
 Ser Thr Tyr Phe Pro Gly Tyr Phe Asp Gly Gln Tyr Trp Leu Trp Trp
 50 55 60
 Val Phe Leu Val Leu Gly Phe Leu Leu Phe Leu Arg Gly Phe Ile Asn
 65 70 75 80
 Tyr Ala Lys Val Arg Lys Met Pro Glu Thr Phe Ser Asn Leu Pro Arg
 85 90 95
 Thr Arg Val Leu Phe Ile Tyr
 100

<210> 1727

<211> 198
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1727
 Met Lys Lys Ser Leu Glu Asn Leu Asn Arg Leu Gln Val Met Leu Leu
 1 5 10 15
 His Leu Thr Ala Ala Phe Leu Gln Arg Ala Gln His Xaa Phe Asp Tyr
 20 25 30
 Lys Asp Glu Ser Gly Phe Pro Lys Pro Pro Ser Tyr Asn Val Ala Thr
 35 40 45
 Thr Leu Pro Ser Tyr Asp Glu Ala Glu Arg Thr Lys Ala Glu Ala Thr
 50 55 60
 Ile Pro Leu Val Pro Gly Arg Asp Glu Asp Phe Val Gly Arg Asp Asp
 65 70 75 80
 Phe Asp Asp Ala Asp Gln Leu Arg Ile Gly Asn Asp Gly Ile Phe Met
 85 90 95
 Leu Thr Phe Phe Met Ala Phe Leu Phe Asn Trp Ile Gly Phe Phe Leu
 100 105 110
 Ser Phe Cys Leu Thr Thr Ser Ala Ala Gly Arg Tyr Gly Ala Ile Ser
 115 120 125
 Gly Phe Gly Leu Ser Leu Ile Lys Trp Ile Leu Ile Val Arg Phe Ser
 130 135 140
 Thr Tyr Phe Pro Gly Tyr Phe Asp Gly Gln Tyr Trp Leu TrpTrp Val
 145 150 155 160
 Phe Leu Val Leu Gly Phe Leu Leu Phe Leu Arg Gly Phe Ile Asn Tyr
 165 170 175
 Ala Lys Val Arg Lys Met Pro Glu Thr Phe Ser Asn LeuPro Arg Thr
 180 185 190
 Arg Val Leu Phe Ile Tyr
 195

<210> 1728
 <211> 106
 <212> PRT
 <213> Homo sapiens

<220>

<221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 1728
 Met Ala Xaa Ala Leu Ala Ala Leu Ala Ala Val Glu Pro Ala Cys Ala
 1 5 10 15
 Ala Gly Thr Ser Ser Cys Arg Met Lys Lys Ser Leu Glu Asn Leu Asn
 20 25 30
 Arg Leu Gln Val Met Leu Leu His Leu Thr Ala Ala Phe Leu Gln Arg
 35 40 45
 Ala Gln Phe Ser Thr Tyr Phe Pro Gly Tyr Phe Asp Gly Gln Tyr Trp
 50 55 60
 Leu Trp Trp Val Phe Leu Val Leu Gly Phe Leu Leu Phe Leu Arg Gly
 65 70 75 80
 Phe Ile Asn Tyr Ala Lys Val Arg Lys Met Pro Glu Thr Phe Ser Asn
 85 90 95
 Leu Pro Arg Thr Arg Val Leu Phe Ile Tyr
 100 105

<210> 1729
 <211> 68
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1729
 Met Ala Xaa Ala Leu Ala Ala Leu Ala Ala Arg Ala Ala Cys Xaa
 1 5 10 15
 Ala Gly Thr Ser Ser Cys Arg Met Lys Lys Ser Leu Glu Asn Leu Asn
 20 25 30
 Arg Leu Gln Val Met Leu Leu His Leu Thr Ala Ala Phe Leu Gln Arg
 35 40 45

Ala His Xaa Ile Leu Thr Thr Arg Met Ser Leu Gly Phe Gln Ser Pro
 50 55 60

His Leu Thr Met
 65

<210> 1730
 <211> 23
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1730
 Met Ala Xaa Ala Leu Ala Ala Leu Ala Ala Val Glu Xaa Pro Ala Xaa
 1 5 10 15

Pro Val Pro Ala Val Ala Glu
 20

<210> 1731
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 1731
 Met Arg Lys Val Thr Ile Ser Lys Lys His Ala Leu Leu Leu Cys Phe
 1 5 10 15

Gln Leu Phe Arg Cys Leu Leu Ser Met Tyr Ile Trp Ile Thr Phe Val
 20 25 30

Leu Asp Gly Ser Cys Gly Ile His Cys Ser Leu Lys Pro Val Ser Phe
 35 40 45

Pro Cys Thr Tyr His Ser Val His Ser Ser Thr Ser
 50 55 60

<210> 1732
 <211> 188
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (85)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (104)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (164)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1732
 Met Arg Pro Ala Phe Ala Leu Cys Leu Leu Trp Gln Ala Leu Trp Pro
 1 5 10 15
 Gly Pro Gly Gly Gly Glu His Pro Thr Ala Asp Arg Ala Gly Cys Ser
 20 25 30
 Ala Ser Gly Ala Cys Tyr Ser Leu His His Ala Thr Met Lys Arg Gln
 35 40 45
 Ala Ala Glu Glu Ala Cys Ile Leu Arg Gly Gly Ala Leu Ser Thr Val
 50 55 60
 Arg Ala Gly Ala Glu Leu Arg Ala Val Leu Ala Leu Leu Arg Ala Gly
 65 70 75 80
 Pro Gly Pro Gly Xaa Gly Ser Lys Asp Leu Leu Phe Trp Val Ala Leu
 85 90 95
 Glu Arg Arg Arg Ser His Cys Xaa Leu Glu Asn Glu Pro Leu Arg Gly
 100 105 110
 Phe Ser Trp Leu Ser Ser Asp Pro Gly Gly Leu Glu Ser Asp Thr Leu
 115 120 125
 Gln Trp Val Glu Glu Pro Gln Arg Ser Cys Thr Ala Arg Arg Trp Val
 130 135 140
 Leu Pro Gly His Arg Trp Gly Arg Ala Arg Ser Trp Lys Glu Met Arg
 145 150 155 160
 Cys His Leu Xaa Ala Asn Ala Thr Cys Ala Ser Thr Ser Leu Arg Ser
 165 170 175
 Cys Val Leu Arg Arg Ala Pro Gly Pro Pro Leu Thr
 180 185

<210> 1733
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1733
 Met Leu Glu Thr Leu Ser Gln Phe Ile Ser Ile Leu Phe Val Leu Leu
 1 5 10 15
 Trp Ile Ile Ser Asp Leu Ile Leu Cys Phe Leu Lys Cys Gly Asn Pro
 20 25 30
 Gly Thr Leu Asp Met Val Leu Pro Ile Trp Thr Asn Gln Tyr Ile His
 35 40 45
 Ser Ser Arg Ser Ile Leu Ser Phe Ile
 50 55

<210> 1734
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 1734
 Met Leu Cys Val Cys Val Leu Trp Met Phe Thr Val Pro Gly Ser Arg
 1 5 10 15
 Lys Asp Val Gly Glu Ala Ala Pro Ala Ser Gly Thr Gly Gln Glu Cys
 20 25 30
 Arg Met His Gly Ser Trp Ser Gly Arg Ser Leu Gly
 35 40

<210> 1735
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 1735
 Met Leu Cys Val Cys Val Leu Trp Met Phe Thr Val Pro Gly Ser Arg
 1 5 10 15
 Lys Asp Val Gly Glu Ala Ala Pro Ala Ser Gly Thr Gly Gln Glu Cys
 20 25 30
 Arg Met His Gly Ser Trp Ser Gly Arg Ser Leu Gly
 35 40

<210> 1736
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1736
 Met Arg His Val Ala Ile Val Thr Met Ile Val Val Leu Ser Pro Pro
 1 5 10 15
 Val Leu Ala Ser Ser Leu Lys Pro Pro Leu Phe Ile Asp Thr Tyr Phe
 20 25 30
 Met Phe Gly Lys Arg Cys Ser Arg Trp Asp Thr Pro Ala Cys Ser Lys
 35 40 45

<210> 1737
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 1737
 Met Ala Gly His Pro Thr Leu Ile Leu Leu Cys Lys Trp Ala Phe His
 1 5 10 15
 Leu Thr Gly Ala Ile Cys Glu Pro Tyr Leu Asn Gln Thr Leu ~~Pro~~ Thr
 20 25 30
 Gln Ala Cys Leu
 35

<210> 1738
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 1738
 Leu Leu Leu Cys Lys Phe Lys Lys Val Asn Tyr Phe Leu Lys Val Leu
 1 5 10 15
 Ile Ser Asn Phe Ser Ile Trp Ala Tyr Asp His His
 20 25

<210> 1739
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 1739

Cys Lys Trp Val Gln Asn Gly Gly His Pro Asn Val Glu Ser Lys
 1 5 10 15
 Tyr His Cys His Glu Pro Lys Ala Ser Leu Tyr Thr Leu Glu Glu Ser
 20 25 30
 Thr Leu

<210> 1740
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 1740
 Met Cys Phe Leu Met Ile Phe Thr Phe Leu Val Cys Trp Met Pro Tyr
 1 5 10 15
 Ile Val Ile Cys Phe Leu Val Val Asn Gly His Gly His Leu Val Thr
 20 25 30
 Pro Thr Ile Ser Ile Val Ser Tyr Leu Phe Ala Lys Ser Asn Thr Val
 35 40 45
 Tyr Asn Pro Val Ile Tyr Val Phe Met Ile Arg Lys Phe Arg Arg Ser
 50 55 60
 Leu Leu Gln Leu Leu Cys Leu Arg Leu Leu Arg Cys Gln Arg Pro Ala
 65 70 75 80
 Lys Asp Leu Pro Ala Ala Gly Ser Glu Met Gln Ile Arg Pro Ile Val
 85 90 95
 Met Ser Gln Lys Asp Gly Asp Arg Pro Lys Lys Ser Asp Phe Gln Leu
 100 105 110
 Phe Phe His His Phe Tyr His His Gln
 115 120

<210> 1741
 <211> 49
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1741
 Met Gly Ala His Ser Phe Gly Phe Gln Leu Phe Met Ser Val Ser Val
 1 5 10 15

Leu Trp Gly Arg Leu Cys Leu Tyr Gly Arg Phe Ser Val Ile Thr Phe
 20 25 30
 Ala Ser Pro Pro Thr Thr Phe Met Xaa Ile Gln Cys Cys Ser His Cys
 35 40 45
 Ser

<210> 1742
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 1742
 Ser Gly Trp Gln Val Pro Ser Ser Val Lys His Leu Pro Tyr Asp Asn
 1 5 10 15
 Leu Arg Ser His Cys Val Ala Asp Glu Gly Glu Thr Glu Val Glu Gly
 20 25 30
 Thr Arg Ala Thr Trp Val Glu His Ser Gly Arg Pro Gly Val Gly Ser
 35 40 45
 Gly Arg Pro Pro Gly Thr Ser Leu Thr Thr Leu Pro Leu Leu Leu Thr
 50 55 60
 His Leu Ser Leu Thr Cys Pro Leu Gly Gly Asp Phe Ser Lys Arg
 65 70 75

<210> 1743
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 1743
 Met Leu Phe Cys Ile Leu Leu Tyr Thr Leu Gy Ser Ala Arg Cys His
 1 5 10 15
 His Leu Ser Phe Phe Leu Trp Gly Trp Ser Asn Pro Pro Glu Lys Thr
 20 25 30
 Pro Leu Ala Ser Trp Arg Gly Val Lys Ala Arg Bu Pro Gly Pro Gly
 35 40 45
 Cys Gln Leu Leu Gly Ala Ala Gly Ala Glu Ala Gly Ser Cys Gln Ala
 50 55 60
 Phe Ser Gln Gln Asp Ala Leu Ser Thr His Leu Gly Phe Arg Ile Pro
 65 70 75 80
 Leu Pro His Leu Gln Met Gly Gln Met Ser Pro Lys Pro Ala Ala Pro
 85 90 95

Phe Cys Phe Thr Leu Ser Thr Glu
100

<210> 1744
<211> 148
<212> PRT
<213> Homo sapiens

<400> 1744
Met Val Trp Phe Ser Cys Trp Leu Leu Thr Gln Ser Ile Thr Val Ile
1 5 10 15
Leu Gly Ala Arg Gly Arg Tyr Gly Arg Leu Cys Val Leu Gln Gly Arg
20 25 30
His Cys Gly Leu Val Asp Lys Ser Gly Ser Pro Asn Pro Phe Ser Ala
35 40 45
Asp Val Leu Ala Val His Ser Gly Gln Val Ser His Ser Pro Glu Pro
50 55 60
Gln Arg Leu Tyr Gln Tyr Asp Glu Asn Lys Tyr Ser Thr Cys Leu Pro
65 70 75 80
His Gly Val Val Ser Ala Val Asn Glu Ile Met Tyr Met Lys His Leu
85 90 95
Val Tyr Leu Ala Pro Asn Lys Ser Ser Thr Thr Ser Ser Leu Ile Thr
100 105 110
Asn Lys Met Glu Leu Glu Gly Cys Ile Ser Leu Asn Lys Ile Leu Arg
115 120 125
Gln Ile Leu Gly Val Pro Val Phe Ile Leu Gln Leu Glu Ser Pro Pro
130 135 140
Ser Leu Phe Gly
145

<210> 1745
<211> 88
<212> PRT
<213> Homo sapiens

<400> 1745
Met Lys Ile Ala Val Leu Phe Cys Phe Phe Leu Leu Ile Ile Phe Gln
1 5 10 15
Thr Asp Phe Gly Lys Asn Glu Glu Ile Pro Arg Lys Gln Arg Arg Lys
20 25 30
Ile Tyr His Arg Arg Leu Arg Lys Ser Ser Thr Ser His Lys His Arg

35 40 45
 Ser Asn Arg Gln Leu Gly Ile Pro Gln Thr Thr Val Phe Thr Pro Val
 50 55 60
 Ala Arg Leu Pro Ile Val Asn Phe AspTyr Ser Met Glu Glu Lys Phe
 65 70 75 80
 Glu Ser Phe Gln Val Phe Leu Glu
 85

<210> 1746
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1746
 Ile Phe Ala Leu Ser Leu Ser PheTyr Thr Cys Ile His Ile His Thr
 1 5 10 15
 His Arg His Thr
 20

<210> 1747
 <211> 484
 <212> PRT
 <213> Homo sapiens

<400> 1747
 Met Pro Arg His Leu Ser Gly Leu Leu Leu Leu TrpPro Leu Leu
 1 5 10 15
 Leu Leu Leu Pro Pro Thr Pro Ala Ala Pro Gly Pro Leu Ala Arg Pro
 20 25 30
 Gly Leu Arg Arg Leu Gly Thr Arg Gly Pro Gly Gly Ser ProGly Arg
 35 40 45
 Arg Pro Gly Ser Ala Val Pro Thr Arg Ala Pro Tyr Ser Gly Ala Gly
 50 55 60
 Gln Pro Gly Gly Ala Arg Gly Ala Gly Val Cys Arg Ser Arg Pro Leu
 65 70 75 80
 Asp Leu Val Phe Ile Ile Asp Ser Ser Arg Ser Val Arg Pro Leu Glu
 85 90 95
 Phe Thr Lys Val Lys Thr Phe Val Ser Gln Ile Ile Asp Thr Leu Asp
 100 105 110
 Ile Gly Ala Ala Asp Thr Arg Val Ala Val Val Asn Tyr Ala Ser Thr
 115 120 125

Val Lys Ile Glu Phe His Leu Gln Thr His Ser Asp Lys Gln Ser Leu
 130 135 140
 Lys Gln Ala Val Ala Arg Ile Thr Pro Leu Ser Thr Gly Thr Met Ser
 145 150 155 160
 Gly Leu Ala Ile Gln Thr Ala Met Asp Glu Ala Phe Thr Val Glu Ala
 165 170 175
 Gly Ala Arg Gly Pro Thr Ser Asn Ile Pro Lys Val Ala Ile Ile Val
 180 185 190
 Thr Asp Gly Arg Pro Gln Asp Gln Val Asn Glu Val Ala Ala Arg Ala
 195 200 205
 Arg Ala Ser Gly Ile Glu Leu Tyr Ala Val Gly Val Asp Arg Ala Asp
 210 215 220
 Met Glu Ser Leu Lys Met Met Ala Ser Glu Pro Leu Asp Glu His Val
 225 230 235 240
 Phe Tyr Val Glu Thr Tyr Gly Val Ile Glu Lys Leu Ser Ser Arg Phe
 245 250 255
 Gln Glu Thr Phe Cys Ala Leu Asp Pro Cys Val Leu Gly Thr His Arg
 260 265 270
 Cys Gln His Val Cys Val Ser Asp Gly Glu Gly Lys His His Cys Glu
 275 280 285
 Cys Ser Gln Gly Tyr Ser Leu Asn Ala Asp Gln Lys Thr Cys Ser Ala
 290 295 300
 Ile Asp Lys Cys Ala Leu Asn Thr His Gly Cys Glu His Ile Cys Val
 305 310 315 320
 Asn Asp Arg Thr Gly Ser Tyr His Cys Glu Cys Tyr Glu Gly Tyr Thr
 325 330 335
 Leu Asn Gln Asp Arg Lys Thr Cys Ser Ala Gln Asp Gln Cys Ala Phe
 340 345 350
 Gly Thr His Gly Cys Gln His Ile Cys Val Asn Asp Arg Asp Gly Ser
 355 360 365
 His His Cys Glu Cys Tyr Glu Gly Tyr Thr Leu Asn Ala Asp Asn Lys
 370 375 380
 Thr Cys Ser Val Arg Ser Glu Cys Ala Gly Gly Ser His Gly Cys Gln
 385 390 395 400
 His Leu Cys Val Asp Asp Gly Pro Ala Ala Tyr His Cys Asp Cys Phe
 405 410 415
 Pro Gly Tyr Thr Leu Thr Glu Asp Arg Arg Thr Cys Ala Ala Ile Glu
 420 425 430

Glu Ala Arg Arg Leu Val Ser Thr Glu Asp Ala Cys Gly Cys Glu Ala
 435 440 445
 Thr Leu Ala Phe Gln Glu Arg Ala Ser Ser Tyr Leu Gln Arg Leu Asn
 450 455 460
 Ala Lys Leu Asp Asp Ile Leu Gly Lys Leu Gln Ala Asp Ala Tyr Gly
 465 470 475 480
 Gln Ile His Arg

<210> 1748
 <211> 266
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (47)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (134)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (183)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (222)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (224)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (255)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1748

Met Pro Arg His Leu Ser Gly Leu Leu Leu Leu Trp Pro Leu Leu
1 5 10 15
Leu Leu Leu Pro Pro Thr Pro Ala Ala Pro Gly Pro Leu Ala Arg Pro
20 25 30
Gly Leu Arg Arg Leu Gly Thr Arg Gly Pro Gly Gly Xaa Pro Xaa Arg
35 40 45
Arg Pro Xaa Ser Ala Val Pro Thr Arg Ala Pro Tyr Ser Gly Ala Gly
50 55 60
Gln Pro Gly Gly Ala Arg Gly Ala Gly Val Cys Arg Ser Arg Pro Leu
65 70 75 80
Asp Leu Val Phe Ile Ile Asp Ser Ser Arg Ser Val Arg Pro Leu Glu
85 90 95
Phe Thr Lys Val Lys Thr Phe Val Ser Gln Ile Ile Asp Thr Leu Asp
100 105 110
Ile Gly Ala Ala Asp Thr Arg Val Ala Val Val Asn Tyr Ala Ser Thr
115 120 125
Val Lys Ile Glu Phe Xaa Leu Gln Thr His Ser Asp Lys Gln Ser Leu
130 135 140
Lys Gln Ala Val Ala Arg Ile Thr Pro Leu Ser Thr Gly Thr Met Ser
145 150 155 160
Gly Leu Ala Ile Gln Thr Ala Met Asp Glu Ala Phe Thr Val Glu Ala
165 170 175
Gly Ala Arg Gly Pro Thr Xaa Asn Ile Pro Lys Val Ala Ile Ile Val
180 185 190
Thr Asp Gly Arg Pro Gln Asp Gln Val Asn Glu Val Ala Ala Arg Ala
195 200 205
Arg Ala Ser Gly Ile Glu Leu Tyr Ala Val Gly Val Asp Xaa Ala Xaa
210 215 220
Met Glu Ser Leu Gln Asp Glu Trp Pro Ala Lys Pro Leu Asp Glu His
225 230 235 240
Val Phe Tyr Val Glu Thr Tyr Gly Val Ile Glu Lys Pro Ser Xaa Arg
245 250 255
Phe Gln Glu Thr Leu Leu Arg Ser Trp Asn
260 265

<210> 1749

<211> 5
 <212> PRT
 <213> Homo sapiens

<400> 1749
 Val Leu Leu Ile Leu
 1 5

<210> 1750
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 1750
 Lys Met His Phe Asn Lys Asn Lys Ser Ile Leu Lys Ser Phe Ser Phe
 1 5 10 15
 Val Arg Gly Asn Met Asn Glu Ile His Ser Tyr Leu Lys Thr Glu Tyr
 20 25 30
 Phe Thr Ala Lys Thr Leu Asn Ile Ser Arg Ala Tyr His Ile Leu Asn
 35 40 45
 Thr Leu Trp Ser Cys Ser Tyr Phe Asn Ile Pro Gly Ser Gly Gly Gln
 50 55 60
 Leu Ala Cys Leu Trp Leu Arg Ile Cys Phe His Ala Cys Phe Leu Ser
 65 70 75 80
 Phe Phe Tyr Leu

<210> 1751
 <211> 115
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (50)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (70)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (86)
 <223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE
 <222> (100)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 1751
 Met Gln Pro Pro Ser Leu Leu Leu Leu Val Leu Gly Leu Leu Ala Ala
 1 5 10 15
 Pro Ala Ala Ala Leu Val Arg Ile Pro Leu His Lys Phe Thr Ser Val
 20 25 30
 Arg Arg Thr Met Ser Glu Leu Gly Gly Pro Val Glu Asn Leu Ile Ala
 35 40 45
 Arg Xaa Pro Ile Ser Lys Tyr Ala Gln Gly Val Pro Ser Val Ala Gly
 50 55 60
 Gly Pro Val Pro Glu Xaa Leu Lys Glu Thr Thr Trp Asn Ala Gln Ile
 65 70 75 80
 Leu Arg Gly Lys Phe Xaa His Pro Gly Thr Pro Pro Arg Lys Leu Leu
 85 90 95
 Pro Pro Val Xaa Pro Phe Glu Lys Arg Gly Ser Phe Pro Thr Leu Leu
 100 105 110

 Gly Ser Pro
 115

<210> 1752
 <211> 92
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (69)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (70)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1752
 Leu Val Val Leu Gly Val Cys Ala Ala Gln His Glu Leu Thr Pro Arg
 1 5 10 15
 Leu Arg Ala Gly Val Pro Val Gln Val Glu Arg Glu Asp Val Leu Leu
 20 25 30

His Gln Leu Leu Leu His Gln Val Ile Lys Xaa Gly Lys His Ile Val
 35 40 45
 Asp Arg Asp Ala Gly Val Gly His Ala Gln Asp Ala Val Glu Leu Gly
 50 55 60
 Arg Asp Glu Gly Xaa Xaa Arg Leu Leu Gly Gly Phe Pro Glu Arg Leu
 65 70 75 80
 Pro Leu His Leu Asp Ala Ser Gln Ala Arg Gln Thr
 85 90

<210> 1753
 <211> 368
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (310)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (365)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1753
 Met Gln Pro Ser Ser Leu Leu Pro Leu Ala Leu Cys Leu Leu Ala Ala
 1 5 10 15
 Pro Ala Ser Ala Leu Val Arg Ile Pro Leu His Lys Phe Thr Ser Ile
 20 25 30
 Arg Arg Thr Met Ser Glu Val Gly Gly Ser Val Glu Asp Leu Ile Ala
 35 40 45
 Lys Gly Pro Val Ser Lys Tyr Ser Gln Ala Val Pro Ala Val Thr Glu
 50 55 60
 Gly Pro Ile Pro Glu Val Leu Lys Asn Tyr Met Asp Ala Gln Tyr Tyr
 65 70 75 80
 Gly Glu Ile Gly Ile Gly Thr Pro Pro Gln Cys Phe Thr Val Val Phe
 85 90 95
 Asp Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Ile His Cys Lys Leu
 100 105 110
 Leu Asp Ile Ala Cys Trp Ile His His Lys Tyr Asn Ser Asp Lys Ser
 115 120 125
 Ser Thr Tyr Val Lys Asn Gly Thr Ser Phe Asp Ile His Tyr Gly Ser
 130 135 140

Gly Ser Leu Ser Gly Tyr Leu Ser Gln Asp Thr Val Ser Val Pro Cys
 145 150 155 160
 Gln Ser Ala Ser Ser Ala Ser Ala Leu Gly Gly Val Lys Val Glu Arg
 165 170 175
 Gln Val Phe Gly Glu Ala Thr Lys Gln Pro Gly Ile Thr Phe Ile Ala
 180 185 190
 Ala Lys Phe Asp Gly Ile Leu Gly Met Ala Tyr Pro Arg Ile Ser Val
 195 200 205
 Asn Asn Val Leu Pro Val Phe Asp Asn Leu Met Gln Gln Lys Leu Val
 210 215 220
 Asp Gln Asn Ile Phe Ser Phe Tyr Leu Ser Arg Asp Pro Asp Ala Gln
 225 230 235 240
 Pro Gly Gly Glu Leu Met Leu Gly Gly Thr Asp Ser Lys Tyr Tyr Lys
 245 250 255
 Gly Ser Leu Ser Tyr Leu Asn Val Thr Arg Lys Ala Tyr Trp Gln Val
 260 265 270
 His Leu Asp Gln Val Glu Val Ala Ser Gly Leu Thr Leu Cys Lys Glu
 275 280 285
 Gly Cys Glu Ala Ile Val Asp Thr Gly Thr Ser Leu Met Val Gly Pro
 290 295 300
 Val Asp Glu Val Arg Xaa Leu Gln Lys Ala Ile Gly Ala Val Pro Leu
 305 310 315 320
 Ile Gln Gly Glu Tyr Met Ile Pro Cys Glu Lys Val Ser Thr Leu Pro
 325 330 335
 Ala Ile Thr Leu Lys Leu Gly Gly Lys Gly Tyr Lys Leu Ser Pro Glu
 340 345 350
 Asp Tyr Thr Leu Lys Val Ser Gln Ala Gly Lys Thr Xaa Cys Leu Ser
 355 360 365

<210> 1754
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1754
 Met Leu Val Leu Phe Lys Phe Leu Pro Leu Thr Ser Ser Gly Arg Phe
 1 5 10 15

Leu Ser Val Thr Leu Tyr His Arg Val His His Gln Thr Phe Phe Ala
 20 25 30
 Gly Ala Lys Ser Phe Ser Pro Ala Ser Thr Leu Asn Leu Tyr Ile Cys
 35 40 45
 Ser Ser Gln Phe Gln Ser Leu Gln Lys Leu Tyr Cys Gly Val Ile Pro
 50 55 60
 Val Leu Arg Tyr Ala Ser Ile Glu
 65 70

<210> 1755
 <211> 112
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (103)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (112)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1755
 Met Lys Thr Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn
 1 5 10 15
 Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu
 20 25 30
 Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala
 35 40 45
 Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu
 50 55 60
 Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys Lys
 65 70 75 80
 Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala
 85 90 95
 Ser Pro Gly Val Phe Asn Xaa Thr Leu Asp Gly Pro Leu Gly Gly Xaa
 100 105 110

<210> 1756

<211> 112
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (103)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (112)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1756
 Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn
 1 5 10 15
 Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu
 20 25 30
 Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala
 35 40 45
 Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu
 50 55 60
 Glu Arg Lys Ser Leu Leu Xaa Asn Leu Glu Glu Ala Lys Lys Lys Lys
 65 70 75 80
 Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala
 85 90 95
 Ser Pro Gly Val Phe Asn Xaa Thr Leu Asp Gly Pro Leu Gly Gly Xaa
 100 105 110

<210> 1757
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 1757
 Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn
 1 5 10 15
 Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu
 20 25 30

Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala
 35 40 45
 Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu
 50 55 60
 Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys Lys
 65 70 75 80
 Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala
 85 90 95
 Ser Gln Gly Val Cys Asn Asp Thr Met Met Ala Leu Trp Glu Glu Cys
 100 105 110
 Lys Pro Cys Leu Lys Gln Thr Trp Gly Lys Gly Leu Arg Pro Ser Leu
 115 120 125
 Gln Lys Gln His Arg Ala Gly Trp Pro Pro Gly
 130 135

<210> 1758
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 1758
 Leu Leu Val Val Leu Leu Ser
 1 5

<210> 1759
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 1759
 Leu Leu Leu Val Gly Leu Gln Gln Leu Val Val Gln Ala Trp
 1 5 10

<210> 1760
 <211> 288
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (10)
 <223> Xaa equals any of the naturally occurring amino acids
 <220>

<221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (268)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (271)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (273)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (274)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (276)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (286)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 1760
 Phe Ser Ser Ser Ala Cys Pro Ser Val Xaa Ser Leu Phe Val Xaa Leu
 1 5 10 15

 Gly Lys Asn Pro His Asp Ala Gln Gly His Pro Arg Ala Ser Glu Asp
 20 25 30

 Gln Pro Ser Ser Gly Lys Pro Val Thr Ser Tyr Pro Gly Glu Cys Gly
 35 40 45

 Phe Val Phe Thr Lys Glu Ala Ser Leu Glu Ile Arg Asp Met Leu Leu
 50 55 60

 Ala Asn Lys Val Pro Ala Ala Ala Arg Ala Gly Ala Ile Ala Pro Cys
 65 70 75 80

 Glu Val Thr Val Pro Ala Gln Asn Thr Gly Leu Gly Pro Glu Lys Thr
 85 90 95

 Ser Phe Phe Gln Ala Leu Gly Ile Thr Thr Lys Ile Ser Arg Gly Thr
 100 105 110

 Ile Glu Ile Leu Ser Asp Val Gln Leu Ile Lys Thr Gly Asp Lys Val

115 120 125
 Gly Ala Ser Glu Ala Thr Leu Leu Asn Met Leu Asn Ile Ser Pro Phe
 130 135 140
 Ser Phe Gly Leu Ile Ile Gln Gln Val Phe Asp Asn Gly Ser Ile Tyr
 145 150 155 160
 Asn Pro Glu Val Leu Asp Ile Thr Glu Glu Thr Leu His Ser Arg Phe
 165 170 175
 Leu Glu Gly Val Arg Asn Val Ala Ser Val Cys Leu Gln Ile Gly Tyr
 180 185 190
 Pro Thr Val Ala Ser Val Pro His Ser Ile Ile Asn Gly Tyr Lys Arg
 195 200 205
 Val Leu Ala Leu Ser Val Glu Thr Asp Tyr Thr Phe Pro Leu Ala Glu
 210 215 220
 Lys Val Lys Ala Phe Leu Ala Asp Pro Ser Ala Phe Val Ala Ala Ala
 225 230 235 240
 Pro Val Ala Ala Ala Thr Thr Ala Ala Pro Ala Ala Ala Ala Ala Pro
 245 250 255
 Ala Lys Val Glu Ala Lys Glu Glu Ser Glu Glu Xaa Asp Glu Xaa Ile
 260 265 270
 Xaa Xaa Ser Xaa Ile Ser Lys Ser Asn Asn Ser Ser Gln Xaa Ile Val
 275 280 285

<210> 1761
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 1761
 Met Ala Pro Ser Gly Pro Leu Leu Leu Val Leu Leu Val Pro Leu Ala
 1 5 10 15
 Ala Ala Arg Pro Gly Pro Thr Ser Val Pro Ala Gly Ala Ala Ala Cys
 20 25 30
 Pro Cys Gly Gly Thr Ser Cys Arg Gly Trp Gly Ala Gly Pro Thr Pro
 35 40 45
 Gly Arg Thr Ser Thr Cys Pro His Leu Thr Cys Pro Arg Ala Gly Thr
 50 55 60
 Gly Ala Thr
 65

<210> 1762
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 1762
 Pro Gln Gly Pro Asn Asp Val Thr Ala Lys Leu Leu Cys Pro
 1 5 10

<210> 1763
 <211> 6
 <212> PRT
 <213> Homo sapiens

<400> 1763
 Met Leu Leu Leu Tyr Leu
 1 5

<210> 1764
 <211> 554
 <212> PRT
 <213> Homo sapiens

<400> 1764
 Gly Gly Gly Tyr Ala Leu Ala Leu Leu Val Leu Leu La Leu Gly Pro
 1 5 10 15
 Gly Gly Trp Cys Leu Ala Glu Pro Pro Arg Asp Ser Leu Arg Glu Glu
 20 25 30
 Leu Val Ile Thr Pro Leu Pro Ser Gly Asp Val Ala Ala Th Phe Gln
 35 40 45
 Phe Arg Thr Arg Trp Asp Ser Glu Leu Gln Arg Glu Gly Val Ser His
 50 55 60
 Tyr Arg Leu Phe Pro Lys Ala Leu Gly Gln Leu Ile Ser Lys Tyr Ser
 65 70 75 80
 Leu Arg Glu Leu His Leu Ser Phe Thr Gln Gly Phe Trp Arg Thr Arg
 85 90 95
 Tyr Trp Gly Pro Pro Phe Leu Gln Ala Pro Ser Asp Thr Asp His Tyr
 100 105 110
 Phe Leu Arg Tyr Ala Val Leu Pro Arg Glu Val Val Cys Thr Glu Asn
 115 120 125
 Leu Thr Pro Trp Lys Lys Leu Leu Pro Cys Ser Ser Lys Ala Gly Leu
 130 135 140

Ser Val Leu Leu Lys Ala Asp Arg Leu Phe His Thr Ser Tyr His Ser
 145 150 155 160
 Gln Ala Val His Ile Arg Pro Val Cys Arg Asn Ala Arg Cys Thr Ser
 165 170 175
 Ile Ser Trp Glu Leu Arg Gln Thr Leu Ser Val Val Phe Asp Ala Phe
 180 185 190
 Ile Thr Gly Gln Gly Lys Lys Asp Trp Ser Leu Phe Arg Met Phe Ser
 195 200 205
 Arg Thr Leu Thr Glu Pro Cys Pro Leu Ala Ser Glu Ser Arg Val Tyr
 210 215 220
 Val Asp Ile Thr Thr Tyr Asn Gln Asp Asn Glu Thr Leu Glu Val His
 225 230 235 240
 Pro Pro Pro Thr Thr Thr Tyr Gln Asp Val Ile Leu Gly Thr Arg Lys
 245 250 255
 Thr Tyr Ala Ile Tyr Asp Leu Leu Asp Thr Ala Met Ile Asn Asn Ser
 260 265 270
 Arg Asn Leu Asn Ile Gln Leu Lys Trp Lys Arg Pro Pro Glu Asn Glu
 275 280 285
 Ala Pro Pro Val Pro Phe Leu His Ala Gln Arg Tyr Val Ser Gly Tyr
 290 295 300
 Gly Leu Gln Lys Gly Glu Leu Ser Thr Leu Leu Tyr Asn Thr His Pro
 305 310 315 320
 Tyr Arg Ala Phe Pro Val Leu Leu Leu Asp Thr Val Pro Trp Tyr Leu
 325 330 335
 Arg Leu Tyr Val His Thr Leu Thr Ile Thr Ser Lys Gly Lys Glu Asn
 340 345 350
 Lys Pro Ser Tyr Ile His Tyr Gln Pro Ala Gln Asp Arg Leu Gln Pro
 355 360 365
 His Leu Leu Glu Met Leu Ile Gln Leu Pro Ala Asn Ser Val Thr Lys
 370 375 380
 Val Ser Ile Gln Phe Glu Arg Ala Leu Leu Lys Trp Thr Glu Tyr Thr
 385 390 395 400
 Pro Asp Pro Asn His Gly Phe Tyr Val Ser Pro Ser Val Leu Ser Ala
 405 410 415
 Leu Val Pro Ser Met Val Ala Ala Lys Pro Val Asp Trp Glu Glu Ser
 420 425 430
 Pro Leu Phe Asn Ser Leu Phe Pro Val Ser Asp Gly Ser Asn Tyr Phe
 435 440 445

Val Arg Leu Tyr Thr Glu Pro Leu Leu Val Asn Leu Pro Thr Pro Asp
 450 455 460
 Phe Ser Met Pro Tyr Asn Val Ile Cys Leu Thr Cys Thr Val Val Ala
 465 470 475 480
 Val Cys Tyr Gly Ser Phe Tyr Asn Leu Leu Thr Arg Thr Phe Pro His
 485 490 495
 Arg Gly Ala Pro His Arg Trp Pro Gly Gln Ala Ala Gly Gln Pro Tyr
 500 505 510
 Pro Ala Arg Pro Ser Val Pro Pro Thr Leu Ile Leu Ala Leu Ser Ser
 515 520 525
 Ser Cys Ser Cys Arg Phe Ser Leu Gly Arg Gly Ala Gln Gly Leu Phe
 530 535 540
 Leu Pro Leu Ala Leu Leu Arg Val Gly Phe
 545 550

<210> 1765
 <211> 5
 <212> PRT
 <213> Homo sapiens

<400> 1765
 Gly Glu Ile Phe Leu
 1 5

<210> 1766
 <211> 453
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (432)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1766
 Met Arg Met Ala Ser Ile Met Val Trp Val Met Ile Ile Met Val Ile
 1 5 10 15
 Leu Val Leu Gly Tyr Gly Ile Phe His Cys Tyr Met Glu Tyr Ser Arg
 20 25 30
 Leu Arg Gly Glu Ala Gly Ser Asp Val Ser Leu Val Asp Leu Gly Phe
 35 40 45
 Gln Thr Asp Phe Arg Val Tyr Leu His Leu Arg Gln Thr Trp Leu Ala
 50 55 60

Phe Met Ile Ile Leu Ser Ile Leu Glu Val Ile Ile Ile Leu Leu Leu
 65 70 75 80
 Ile Phe Leu Arg Lys Arg Ile Leu Ile Ala Ile Ala Leu Ile Lys Glu
 85 90 95
 Ala Ser Arg Ala Val Gly Tyr Val Met Cys Ser Leu Leu Tyr Pro Leu
 100 105 110
 Val Thr Phe Phe Leu Leu Cys Leu Cys Ile Ala Tyr Trp Ala Ser Thr
 115 120 125
 Ala Val Phe Leu Ser Thr Ser Asn Glu Ala Val Tyr Lys Ile Phe Asp
 130 135 140
 Asp Ser Pro Cys Pro Phe Thr Ala Lys Thr Cys Asn Pro Glu Thr Phe
 145 150 155 160
 Pro Ser Ser Asn Glu Ser Arg Gln Cys Pro Asn Ala Arg Cys Gln Phe
 165 170 175
 Ala Phe Tyr Gly Gly Glu Ser Gly Tyr His Arg Ala Leu Leu Gly Leu
 180 185 190
 Gln Ile Phe Asn Ala Phe Met Phe Phe Trp Leu Ala Asn Phe Val Leu
 195 200 205
 Ala Leu Gly Gln Val Thr Leu Ala Gly Ala Phe Ala Ser Tyr Tyr Trp
 210 215 220
 Ala Leu Arg Lys Pro Asp Asp Leu Pro Ala Phe Pro Leu Phe Ser Ala
 225 230 235 240
 Phe Gly Arg Ala Leu Arg Tyr His Thr Gly Ser Leu Ala Phe Gly Ala
 245 250 255
 Leu Ile Leu Ala Ile Val Gln Ile Ile Arg Val Ile Leu Glu Tyr Leu
 260 265 270
 Asp Gln Arg Leu Lys Ala Ala Glu Asn Lys Phe Ala Lys Cys Leu Met
 275 280 285
 Thr Cys Leu Lys Cys Cys Phe Trp Cys Leu Glu Lys Phe Ile Lys Phe
 290 295 300
 Leu Asn Arg Asn Ala Tyr Ile Met Ile Ala Ile Tyr Gly Tr Asn Phe
 305 310 315 320
 Cys Thr Ser Ala Arg Asn Ala Phe Phe Leu Leu Met Arg Asn Ile Ile
 325 330 335
 Arg Val Ala Val Leu Asp Lys Val Thr Asp Phe Leu Leu Leu Gly
 340 345 350
 Lys Leu Leu Ile Val Gly Ser Val Gly Ile Leu Ala Phe Phe Phe Phe
 355 360 365

Thr His Arg Ile Arg Ile Val Gln Asp Thr Ala Pro Pro Leu Asn Tyr
 370 375 380
 Tyr Trp Val Pro Ile Leu Thr Val Ile Val Gly Ser Tyr Leu Ile Ala
 385 390 395 400
 His Gly Phe Phe Ser Val Tyr Gly Met Cys Val Asp Thr Leu Phe Leu
 405 410 415
 Cys Phe Leu Glu Asp Leu Glu Arg Asn Asp Gly Ser Ala Glu Arg Xaa
 420 425 430
 Tyr Phe Met Ser Ser Thr Leu Lys Lys Leu Leu Asn Lys Thr Asn Lys
 435 440 445
 Lys Ala Ala Glu Ser
 450

<210> 1767
 <211> 96
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (25)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (77)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (79)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1767
 Ala Ala Arg Glu Gly Ala Pro Pro Pro Cys Pro Thr Ser Ala Ile Gly
 1 5 10 15
 Arg Ala Ser Leu Ser Leu Arg Asp Xaa Gly Arg Gly Leu Arg Asp Ala
 20 25 30
 Arg Arg Glu Lys Arg Arg Gly Val Arg Gly Gln Asp Gly Gly Asp Tyr
 35 40 45
 Gly Trp Cys Gly Pro Ala Arg Gly Arg Gly Val Ala Ala Lys Gly Thr
 50 55 60
 Ala Glu Gly Pro Thr Gly Glu Asn Arg Ala Gln Gly Xaa Lys Xaa Gly
 65 70 75 80

Val Arg Val Ala Val Glu Ala Ser Ser Val Arg Gly Pro Gly Arg Ala
85 90 95

<210> 1768
<211> 77
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring amino acids

<400> 1768
Leu Gly Gly Tyr Ala Leu Ser Xaa Xaa Xaa Asn Arg Val Thr Asp Xaa
1 5 10 15

Val Met Ile Tyr Phe Phe Ile Ile Ile Val Glu Tyr Phe Tyr Gly Lys
20 25 30

Ile Phe Val Val Leu Ile Ile Pro Ile Lys Ile Met Pro Asn Thr Lys
35 40 45

Tyr Glu Phe Tyr Asp Val His Phe Val Leu Gly Ile Lys Arg Lys Lys
50 55 60

His Thr Ser Trp Lys Ser Val Ser Cys Phe Leu Leu Leu
65 70 75

<210> 1769
<211> 84
<212> PRT
<213> Homo sapiens

<400> 1769

Thr Tyr Ser Phe Cys Val Cys Glu Arg Ala Phe Val Phe Gly Ser Val
 1 5 10 15
 Pro Arg Ala Glu Val Glu Gln Gly Cys Thr Tyr His Gly Lys Gly Gly
 20 25 30
 Arg Lys Glu Asn Trp Ile Ala Cys Asp Leu Trp Trp Asn Leu Phe Leu
 35 40 45
 Leu Pro Arg Pro Phe Arg Pro Cys Leu Ile Ser Val Gly His Phe Arg
 50 55 60
 Leu Trp Gln Gly Arg Ala Gly Leu Gln Ser Glu Val Pro Ala Ser Ser
 65 70 75 80
 Leu Glu His Asn

<210> 1770
 <211> 469
 <212> PRT
 <213> Homo sapiens

<400> 1770
 Met Arg Pro Pro Gly Phe Arg Asn Phe Leu Leu Leu AlaSer Ser Leu
 1 5 10 15
 Leu Phe Ala Gly Leu Ser Ala Val Pro Gln Ser Phe Ser Pro Ser Leu
 20 25 30
 Arg Ser Trp Pro Gly Ala Ala Cys Arg Leu Ser Arg Ala GluSer Glu
 35 40 45
 Arg Arg Cys Arg Ala Pro Gly Gln Pro Pro Gly Ala Ala Leu Cys His
 50 55 60
 Gly Arg Gly Arg Cys Asp Cys Gly Val Cys Ile Cys His Val Thr Glu
 65 70 75 80
 Pro Gly Met Phe Phe Gly Pro Leu Cys Glu Cys His Glu Trp Val Cys
 85 90 95
 Glu Thr Tyr Asp Gly Ser Thr Cys Ala Gly His Gly Lys Cys Asp Cys
 100 105 110
 Gly Lys Cys Lys Cys Asp Gln Gly Trp Tyr Gly Asp Ala Cys Gln Tyr
 115 120 125
 Pro Thr Asn Cys Asp Leu Thr Lys Lys Lys Ser Asn Gln Met Cys Lys
 130 135 140
 Asn Ser Gln Asp Ile Ile Cys Ser Asn Ala Gly Thr Cys His Cys Gly
 145 150 155 160
 Arg Cys Lys Cys Asp Asn Ser Asp Gly Ser Gly Leu Val Tyr Gly Lys

165	170	175
Phe Cys Glu Cys Asp Asp Arg Glu Cys Ile Asp Asp Glu Thr Glu Glu 180 185 190		
Ile Cys Gly Gly His Gly Lys Cys Tyr Cys Gly Asn Cys Tyr Cys Lys 195 200 205		
Ala Gly Trp His Gly Asp Lys Cys Glu Phe Gln Cys Asp Ile Thr Pro 210 215 220		
Trp Glu Ser Lys Arg Arg Cys Thr Ser Pro Asp Gly Lys Ile Cys Ser 225 230 235 240		
Ser Arg Gly Thr Cys Val Cys Gly Glu Cys Thr Cys His Asp Val Asp 245 250 255		
Pro Thr Gly Asp Trp Gly Asp Ile His Gly Asp Thr Cys Glu Cys Asp 260 265 270		
Glu Arg Asp Cys Arg Ala Val Tyr Asp Arg Tyr Ser Asp Asp Phe Cys 275 280 285		
Ser Gly His Gly Gln Cys Asn Cys Gly Arg Cys Asp Cys Lys Ala Gly 290 295 300		
Trp Tyr Gly Lys Lys Cys Glu His Pro Gln Ser Cys Thr Leu Ser Ala 305 310 315 320		
Glu Glu Ser Ile Arg Lys Cys Gln Gly Ser Ser Asp Leu Pro Cys Ser 325 330 335		
Gly Arg Gly Lys Cys Glu Cys Gly Lys Cys Thr Cys Tyr Pro Pro Gly 340 345 350		
Asp Arg Arg Val Tyr Gly Lys Thr Cys Glu Cys Asp Asp Arg Arg Cys 355 360 365		
Glu Asp Leu Asp Gly Val Val Cys Gly Gly His Gly Thr Cys Ser Cys 370 375 380		
Gly Arg Cys Val Cys Glu Arg Gly Trp Phe Gly Lys Leu Cys Gln His 385 390 395 400		
Pro Arg Lys Cys Asn Met Thr Glu Glu Gln Ser Lys Asn Leu Cys Glu 405 410 415		
Ser Ala Asp Gly Ile Leu Cys Ser Gly Lys Gly Ser Cys His Cys Gly 420 425 430		
Lys Cys Ile Cys Ser Ala Glu Glu Trp Tyr Ile Ser Gly Glu Phe Cys 435 440 445		
Asp Cys Asp Asp Arg Asp Cys Asp Lys His Asp Gly Leu Ile Cys Thr 450 455 460		
Arg Glu Trp Asn Met		

465

<210> 1771
<211> 211
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (195)
<223> Xaa equals any of the naturally occurring amino acids

<400> 1771
Met Arg Leu Phe Leu Trp Asn Ala Val Leu Thr Leu Phe Val Thr Ser
1 5 10 15
Leu Ile Gly Ala Leu Ile Pro Glu Pro Glu Val Lys Ile Glu Val Leu
20 25 30
Gln Lys Pro Phe Ile Cys His Arg Lys Thr Lys Gly Xaa Asp Leu Met
35 40 45
Leu Val His Tyr Glu Gly Tyr Leu Glu Lys Asp Gly Ser Leu Phe His
50 55 60
Ser Thr His Lys His Asn Asn Gly Gln Pro Ile Trp Phe Thr Leu Gly
65 70 75 80
Ile Leu Glu Ala Leu Lys Gly Trp Asp Gln Gly Leu Lys Gly Met Cys
85 90 95
Val Gly Glu Lys Arg Lys Leu Ile Ile Pro Pro Ala Leu Gly Tyr Gly
100 105 110
Lys Glu Gly Lys Gly Lys Ile Pro Pro Glu Ser Thr Leu Ile Phe Asn
115 120 125
Ile Asp Leu Leu Glu Ile Arg Asn Gly Pro Arg Ser His Glu Ser Phe
130 135 140
Gln Glu Met Asp Leu Asn Asp Asp Trp Lys Leu Ser Lys Asp Glu Val
145 150 155 160
Lys Ala Tyr Leu Lys Lys Glu Phe Glu Lys His Gly Ala Val Val Asn
165 170 175
Glu Ser His His Asp Ala Leu Val Glu Asp Ile Phe Asp Lys Glu Asp
180 185 190
Glu Asp Xaa Tyr Gly Phe Ile Ser Ala Arg Glu Phe Thr Tyr Lys His

195 200 205

Asp Glu Leu
210

<210> 1772
<211> 40
<212> PRT
<213> Homo sapiens

<400> 1772
Met Val Ala Met Val Phe Leu Lys Ile Ser Val Leu Pro Leu Met Cys
1 5 10 15
Arg Gly Gln Thr Lys His Lys Val Leu Arg Asp His Ala Tyr Pro Arg
20 25 30
Val Ser Gln Lys Arg Gly His Ile
35 40

<210> 1773
<211> 61
<212> PRT
<213> Homo sapiens

<400> 1773
Met Gln Gly Lys Phe Met Lys Val Gln Val Tyr Arg Phe Leu Lys Tyr
1 5 10 15
Leu Leu Met Leu Leu Cys Met Phe Val Asn Arg Gly Met Ser Lys Asp
20 25 30
Ser Thr Lys Lys Pro Gly Gln Glu Lys Leu Lys Val Ser Leu Gly Ser
35 40 45
Ile Leu Asn Met Lys Ser Gln Arg Pro Leu Ser Trp Cys
50 55 60

<210> 1774
<211> 315
<212> PRT
<213> Homo sapiens

<400> 1774
Met Pro Leu Thr Leu Leu Ile Leu Ser Cys Leu Ala Glu Leu Thr Met
1 5 10 15
Ala Glu Ala Glu Gly Asn Ala Ser Cys Thr Val Ser Leu Gly Gly Ala
20 25 30
Asn Met Ala Glu Thr His Lys Ala Met Ile Leu Gln Leu Asn Pro Ser

35					40					45					
Glu	Asn	Cys	Thr	Trp	Thr	Ile	Glu	Arg	Pro	Glu	Asn	Lys	Ser	Ile	Ag
50						55					60				
Ile	Ile	Phe	Ser	Tyr	Val	Gln	Leu	Asp	Pro	Asp	Gly	Ser	Cys	Glu	Ser
65					70					75					80
Glu	Asn	Ile	Lys	Val	Phe	Asp	Gly	Thr	Ser	Ser	Asn	Gly	Pro	Leu	Leu
				85					90					95	
Gly	Gln	Val	Cys	Ser	Lys	Asn	Asp	Tyr	Val	Pro	Val	Phe	Glu	Ser	Ser
			100					105					110		
Ser	Ser	Thr	Leu	Thr	Phe	Gln	Ile	Val	Thr	Asp	Ser	Ala	Arg	Ile	Gln
		115					120					125			
Arg	Thr	Val	Phe	Val	Phe	Tyr	Tyr	Phe	Phe	Ser	Pro	Asn	Ile	Ser	Ile
130					135						140				
Pro	Asn	Cys	Gly	Gly	Tyr	Leu	Asp	Thr	Leu	Glu	Gly	Ser	Phe	Thr	Ser
145					150					155					160
Pro	Asn	Tyr	Pro	Lys	Pro	His	Pro	Glu	Leu	Ala	Tyr	Cys	Val	Trp	His
				165					170					175	
Ile	Gln	Val	Glu	Lys	Asp	Tyr	Lys	Ile	Lys	Leu	Asn	Phe	Lys	Glu	Ile
			180					185					190		
Phe	Leu	Glu	Ile	Asp	Lys	Gln	Cys	Lys	Phe	Asp	Phe	Leu	Ala	Ile	Tyr
		195					200					205			
Asp	Gly	Pro	Ser	Thr	Asn	Ser	Gly	Leu	Ile	Gly	Gln	Val	Cys	Gly	Arg
210					215						220				
Val	Thr	Pro	Thr	Phe	Glu	Ser	Ser	Ser	Asn	Ser	Leu	Thr	Val	Val	Leu
225					230					235					240
Ser	Thr	Asp	Tyr	Ala	Asn	Ser	Tyr	Arg	Gly	Phe	Ser	Ala	Ser	Tyr	Thr
				245					250					255	
Ser	Ile	Tyr	Ala	Glu	Asn	Ile	Asn	Thr	Thr	Ser	Leu	Thr	Cys	Ser	Ser
			260					265					270		
Asp	Arg	Met	Arg	Val	Ile	Ile	Ser	Lys	Ser	Tyr	Leu	Glu	Ala	Phe	Asn
		275					280					285			
Ser	Asn	Gly	Asn	Asn	Leu	Gln	Leu	Lys	Asp	Pro	Thr	Trp	Gln	Thr	Lys
		290				295					300				
Ile	Ile	Lys	Cys	Cys	Gly	Ile	Phe	Cys	Pro	Ser					
305					310					315					

<210> 1775

<211> 72

<212> PRT
<213> Homo sapiens

<400> 1775
Met Pro Leu Thr Leu Leu Ile Leu Ser Cys Leu Ala Asp Trp Thr Met
1 5 10 15
Ala Glu Ala Glu Gly Asn Ala Ser Cys Thr Val Ser Leu Gly Gly Ala
20 25 30
Asn Met Ala Glu Thr His Lys Ala Met Ile Leu Gln Leu Asn Pro Ser
35 40 45
Glu Asn Cys Thr Trp Thr Ile Glu Arg Pro Glu Asn Lys Ser Ile Arg
50 55 60
Ile Ile Phe Ser Tyr Val Pro Ala
65 70

<210> 1776
<211> 131
<212> PRT
<213> Homo sapiens

<400> 1776
Met Leu Phe Val Phe Cys Cys Thr Val Phe Phe Val Cys Leu Phe Val
1 5 10 15
Tyr Leu Val Gly Phe Leu Glu Arg Glu Ile Trp Lys Arg Asp Ile His
20 25 30
Lys Ser Tyr Thr Pro Thr Phe Pro Phe Tyr His Asp Ile Gln Glu Glu
35 40 45
Thr Ser Arg Ala Lys Asn Gly Val Lys Lys Gly Ser Met Ala Gly Thr
50 55 60
Ser Lys Glu Leu Arg Ala Val Ala Leu Lys Asn Tyr Phe Phe Tyr Tyr
65 70 75 80
Tyr Phe Glu Ser Met Glu Val Phe His Ser Leu Gly Lys Gly Gly Lys
85 90 95
Ser Ala Phe Ile Phe Ile Gln Ser Tyr Leu Ile Thr Ser Lys Thr His
100 105 110
Met Leu Glu Ile Ala Phe Ala Gly Ala Lys Tyr Ile Asn Glu Gln Glu
115 120 125
Tyr Ile His
130

<210> 1777

<211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1777

Met Lys His Ser Phe Leu Ser Ser Asp Leu Ile Trp CysVal Leu Ser
 1 5 10 15
 Leu Leu Cys Leu Gly Val Trp Phe Arg Glu Thr Trp Thr Thr Leu Phe
 20 25 30
 Gly Arg Thr Gly Leu Pro Arg Asn Gln Gln Cys Pro Arg ArgLys Gly
 35 40 45
 Leu

<210> 1778
 <211> 173
 <212> PRT
 <213> Homo sapiens

<400> 1778

Met Val Phe Leu Lys Phe Phe Cys Met Ser Phe Phe Cys His Leu Cys
 1 5 10 15
 Gln Gly Tyr Phe Asp Gly Pro Leu Tyr Pro Glu Met Ser Asn Gly Thr
 20 25 30
 Leu His His Tyr Phe Val Pro Asp Gly Asp Tyr Glu Glu Asn Asp Asp
 35 40 45
 Pro Glu Lys Cys Gln Leu Leu Phe Arg Val Ser Asp His Arg Arg Cys
 50 55 60
 Ser Gln Gly Glu Gly Ser Gln Val Gly Ser Leu Leu Ser Leu Thr Leu
 65 70 75 80
 Arg Glu Glu Phe Thr Val Leu Gly His Gln Val Glu Gly Cys Trp Ala
 85 90 95
 Arg Ala Gly Gly His Gln Gln Lys His Leu Leu Arg Pro Arg Arg Gly
 100 105 110
 Arg Glu Leu Trp Gln Val Pro Ala Ala Gly Val Pro Pro Asp Arg Gly
 115 120 125
 Met Pro Thr Pro Thr Arg Thr Asn Pro Ser Leu Ser Trp Arg Ala Ser
 130 135 140
 Ser Ser Arg Ala Arg Asn Arg Thr Ala Gly Arg Arg Ala Gly Ser Thr
 145 150 155 160
 Arg Thr Phe Trp Glu Cys Trp Ser Thr Pro Gly Pro Cys
 165 170

<210> 1779
<211> 51
<212> PRT
<213> Homo sapiens

<400> 1779
Met Arg Cys Gly Glu Ile Ile Leu Ala Ser Val Leu Gly Leu Leu Leu
1 5 10 15
Thr Leu Pro Pro Thr Ser Cys His Leu Asn Lys Ser Phe Pro Phe Leu
20 25 30
Cys Leu Pro Trp Ser Gln Ala Leu Ser Leu Asn Pro His Ser Gly Asn
35 40 45
Glu Ala Gly
50

<210> 1780
<211> 48
<212> PRT
<213> Homo sapiens

<400> 1780
Met Met Leu Tyr Gln Asn Met Leu Leu Tyr Phe Arg Ile Ile Gly Val
1 5 10 15
Leu Ala Leu Asn Phe Ser Ile Ser Pro Ile Phe Phe His Gly Ser Leu
20 25 30
Gly Lys Leu Tyr Val Tyr Ser Ala Ala Lys Tyr Ser Leu Glu Leu Lys
35 40 45

<210> 1781
<211> 10
<212> PRT
<213> Homo sapiens

<400> 1781
Ile Tyr Gln His Phe Ser Leu Trp Leu Gly
1 5 10

<210> 1782
<211> 4
<212> PRT

<213> Homo sapiens

<400> 1782

Met Phe Lys Met

1

<210> 1783

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1783

Met Phe Asp Arg Cys Arg Val Thr Ser Cys Ser Cys Thr Cys Gly Ala
1 5 10 15

Gly Ala Lys Trp Cys Thr His Val Val Ala Leu Cys Leu Phe Arg Ile
20 25 30

His Asn Ala Ser Ala Val Cys Leu Arg Ala Pro Val Ser Glu Ser Leu
35 40 45

Ser Arg Leu Gln Arg Asp Gln Leu Gln Lys Phe Ala Gln Tyr Leu Ile
50 55 60

Ser Glu Leu Pro Gln Gln Val Gly Glu Val Gly Thr Pro Ser Cys Asn
65 70 75 80

<210> 1784

<211> 145

<212> PRT

<213> Homo sapiens

<400> 1784

Asp Pro Ser Gly Ser Phe Met Gly Arg Ser Val Met Met Arg Ile Leu
1 5 10 15

Gly Ser Pro Val Phe Phe Pro Met HisAsp Thr Ser Val Cys Leu Thr
20 25 30

Tyr Pro Asn Phe Tyr Thr Val Val Ser Pro Thr Gly Ser Arg Pro Pro
35 40 45

Ser Arg Asn Trp Asn Ser Glu Thr Pro Gly Asp GluGlu Leu Gly Phe
50 55 60

Glu Ala Ala Val Ala Ala Leu Gly Met Lys Thr Thr Val Ser Glu Ala
65 70 75 80

Glu His Pro Leu Leu Cys Glu Gly Thr Arg Arg Glu Lys GlyAsp Leu
85 90 95

Ala Leu Ala Leu Met Ile Thr Tyr Lys Asp Asp Gln Ala Lys Leu Lys
100 105 110

Lys Lys Ile Ser Arg Ala Trp Trp Arg Ala Pro Val Val Pro AlaThr
115 120 125

Arg Glu Ala Glu Val Gly Glu Leu Leu Glu Pro Arg Ser Leu Arg Leu
130 135 140

Gln
145

<210> 1785
<211> 115
<212> PRT
<213> Homo sapiens

<400> 1785
Met Val Pro Asn Trp Ile Gln Gly Arg Trp Asp Val Leu Leu Cys Val
1 5 10 15

Leu Thr Val Gly Val Leu Pro Ser Ile Gly Ser Arg Gly Gly Trp Phe
20 25 30

Gly Thr Gln Val Pro Cys Leu Ile Pro Gly Ala Leu Ala Ser Leu His
35 40 45

Arg Gly Thr Ala Leu Gln Leu Ser Tyr Pro Phe Ser Met Ala Gly Arg
50 55 60

Thr Ala Glu Arg Pro Cys Ser Met Thr Asn His Ser Phe His Leu Leu
65 70 75 80

Ser Ile Tyr Trp Glu Leu Gly Thr Val Leu Ser Val Lys Arg Val Leu
85 90 95

Thr His Leu Leu Gln Gln Pro Gly Lys Ala Val Leu Pro Leu Ala Pro
100 105 110

Ala Gln Ser
115

<210> 1786
<211> 174
<212> PRT
<213> Homo sapiens

<400> 1786
Met Val Pro Asn Trp Ile Gln Gly Arg Trp Asp Val Leu Leu Cys Val
1 5 10 15

Leu Thr Val Gly Val Leu Pro Ser Ile Gly Ser Arg Gly Gly Trp Phe

20					25					30					
Gly	Thr	Gln	Val	Pro	Cys	Leu	Ile	Pro	Gly	Ala	Leu	Asn	Ser	Leu	His
		35					40					45			
Arg	Gly	Thr	Ala	Leu	Gln	Leu	Ser	Tyr	Pro	Phe	Ser	Met	Ala	Gly	Arg
	50					55					60				
Thr	Ala	Glu	Arg	Pro	Cys	Ser	Met	Thr	Asn	His	Ser	Phe	His	Leu	Leu
	65					70					75				80
Ser	Ile	Tyr	Trp	Glu	Leu	Gly	Thr	Val	Leu	Ser	Val	Lys	Arg	Val	Leu
			85						90					95	
Thr	His	Leu	Leu	Gln	Gln	Pro	Gly	Lys	Ala	Gly	Ser	Ser	Val	Ser	Pro
		100						105					110		
Cys	Ser	Lys	Leu	Gly	Asp	Leu	Glu	His	Arg	Arg	Ser	Ser	Ala	Trp	Leu
		115					120						125		
Lys	Ala	His	Ser	Ser	Glu	Val	Gln	Ile	Leu	Cys	Pro	Ser	Trp	His	Pro
	130					135					140				
Ser	Leu	Gly	Gly	Ser	Gly	Val	Gly	Ser	Leu	Gln	Ser	Val	Pro	Gly	Gly
	145					150					155				160
Trp	Met	Thr	Ser	Cys	Ser	Leu	Pro	Ala	Thr	Pro	Arg	Phe	Pro		
			165						170						

<210> 1787

<211> 228

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (170)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (195)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE
 <222> (205)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (209)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (214)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 1787
 Met Val Pro Asn Trp Ile Gln Gly Arg Trp Asp Val Leu Leu Cys Val
 1 5 10 15
 Leu Thr Val Gly Val Leu Pro Ser Ile Gly Ser Arg Gly Gly Trp Phe
 20 25 30
 Gly Thr Gln Val Pro Cys Leu Ile Pro Gly Ala Leu Ala Ser Leu His
 35 40 45
 Arg Gly Thr Ala Leu Gln Leu Ser Tyr Pro Phe Ser Met Ala Gly Arg
 50 55 60
 Thr Ala Glu Arg Pro Cys Ser Met Thr Asn His Ser Phe His Leu Leu
 65 70 75 80
 Ser Ile Tyr Trp Glu Leu Gly Thr Val Leu Ser Xaa Lys Arg Val Leu
 85 90 95
 Thr His Leu Leu Gln Gln Pro Gly Lys Ala Gly Ser Ser Val Ser Pro
 100 105 110
 Cys Ser Lys Leu Gly Asp Leu Glu His Arg Arg Ser Ser Ala Trp Leu
 115 120 125
 Lys Ala His Ser Ser Xaa Val Gln Ile Leu Cys Pro Ser Trp His Pro
 130 135 140
 Ser Leu Gly Gly Ser Gly Val Gly Ser Leu Gln Ser Val Pro Gly Gly
 145 150 155 160
 Trp Met Thr Lys Leu Gln Pro Ser Arg Xaa Pro Thr Ile Ser Ile Ala
 165 170 175
 Gln Trp Ser Gln Lys Glu Thr Asp His Phe Thr Asp Gln Arg Asn Lys
 180 185 190
 Gly Ala Xaa Leu Leu Asn Pro Gly Ala Ser Asp Arg Xaa Lys Pro Glu
 195 200 205
 Xaa Arg Thr Lys Lys Xaa Pro Val Asn Ser Glu Pro Gly Glu Thr Leu
 210 215 220

Pro Phe Thr Asn
225

<210> 1788
<211> 84
<212> PRT
<213> Homo sapiens

<400> 1788
Asp Asn Phe Leu Leu Gly Val Ala Trp Phe Phe Arg Gly Arg Gly Ser
1 5 10 15
Ala His Val Gly Val Val Ser Arg Gln Lys Gln Trp Glu Glu Gly Thr
20 25 30
Ala Lys His Ala Ala Trp Asp Tyr Gly Cys Pro Gln Ser Cys Ser Phe
35 40 45
Ser Lys Gly Val Phe Cys Leu Phe Leu Arg Gln Gly His Thr Leu Ser
50 55 60
Pro Arg Met Glu Cys Ser Gly Pro Ile Leu Ala His Cys Asn Leu Glu
65 70 75 80
Leu Leu Gly Ser

<210> 1789
<211> 69
<212> PRT
<213> Homo sapiens

<400> 1789
Met Ser Arg Lys Ser Leu Ala Phe Pro Ile Ile Cys Ser Tyr Leu Cys
1 5 10 15
Phe Leu Thr Val Ala Thr Cys Ser Ile Ala Cys Thr Thr Val Phe Phe
20 25 30
Ala Asn Leu Arg His Thr Arg Tyr Ile Cys Ile Glu Leu Ser Ala Leu
35 40 45
Glu Thr Ser Gly Val Ile Ser Pro Gln Ile Asn Asn Val Pro Glu Val
50 55 60
His Gly Lys Tyr Ser
65

<210> 1790
<211> 52
<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1790

Met Gln Arg Leu Gly Lys Ala Pro Gly Thr Trp Gln Ala Ile Ser Lys
1 5 10 15

Cys Trp Leu Leu Leu Leu Ser Leu Pro Phe Ser Gln Ser Ile Ile
20 25 30

Ile Ser Leu Xaa Xaa Gly Thr Met Ser Tyr Leu Pro Leu Tyr Phe Pro
35 40 45

Gln Tyr Phe Pro
50

<210> 1791

<211> 86

<212> PRT

<213> Homo sapiens

<400> 1791

Ser Leu Lys His Phe Trp Ser Gln Gly Phe Trp Ile Lys Asn Thr Gln
1 5 10 15

Cys Ala Thr Cys Arg Met Val Val Ala Arg Trp Glu Glu Arg Met Glu
20 25 30

Ser Tyr Cys Leu Met Ile Gln Cys Phe Arg Leu Gly Arg Trp Lys Val
35 40 45

Leu Glu Met Cys Asp Gly Tyr Gly Cys Ala Thr Met Gly Arg Tyr Leu
50 55 60

Val Leu Leu Asn Cys Ala His Leu Lys Met Val Lys Met Ile Asn Phe
65 70 75 80

Val Tyr Val Leu Lys Gln
85

<210> 1792

<211> 54

<212> PRT

<213> Homo sapiens

<400> 1792
Met Lys Thr His Leu Leu Met Phe Leu Leu Ser Cys Met Ala Arg Cys
1 5 10 15
Thr Gly Ile Val Pro Lys Arg Pro Gln Pro Ala Phe Pro Leu Arg Gly
20 25 30
Arg Arg Arg Lys Asn Ser Phe Leu Phe Leu Leu Ser Phe Ser Ile Glu
35 40 45
Phe Leu Leu Cys Val Trp
50

<210> 1793
<211> 47
<212> PRT
<213> Homo sapiens

<400> 1793
Met Lys Thr His Leu Leu Met Phe Leu Leu Ser Cys Met Ala Arg Cys
1 5 10 15
Thr Gly Ile Val Pro Lys Arg Pro Gln Pro Ala Phe Pro Leu Arg Gly
20 25 30
Lys Glu Lys Lys Lys Leu Leu Phe Ile Phe Thr Phe Phe Gln His
35 40 45

<210> 1794
<211> 102
<212> PRT
<213> Homo sapiens

<400> 1794
Met Thr Val Arg Arg Leu Ser Leu Leu Cys Arg Asp Leu Trp Ala Leu
1 5 10 15
Trp Leu Leu Leu Lys Ala Gly Ala Val Arg Gly Ala Arg Ala Gly Pro
20 25 30
Arg Leu Pro Gly Arg Cys Cys Gly Ala Thr Cys Gly Asp Ala Gly Arg
35 40 45
Gly Trp Thr Phe Trp Ala Gln Pro Cys Pro Gln Lys Leu Leu Gly Gln
50 55 60
Lys Pro Gly Ala Gly Gly Cys Arg Gly Trp Val Leu Gly Trp Val Pro
65 70 75 80
Pro Arg Pro Glu Glu Pro Cys Ser Leu Ala Gly Lys Val Cys Thr Gly
85 90 95

Leu Ala Arg Trp Met Val
100

<210> 1795
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring amino acids

<400> 1795
Met Cys Lys Ala Val Cys Lys His Arg Leu Arg Leu Phe Ala Val Ser
1 5 10 15
Ser Phe Ser Leu Gly Leu Gly Trp Val Cys Val Leu Val Leu Met Leu
20 25 30
Trp Pro Val Arg Leu Ser Leu Ala Xaa Arg Pro Val Gln Leu Gln Gln
35 40 45
Arg Arg Ser His Cys
50

<210> 1796
<211> 575
<212> PRT
<213> Homo sapiens

<400> 1796
Met Arg Val Leu Val Val Thr Ile Ala Pro Ile Tyr Trp Ala Leu Ala
1 5 10 15
Arg Glu Ser Gly Glu Ala Leu Asn Gly His Ser Leu Thr Gly Gly Lys
20 25 30
Phe Arg Gln Glu Ser His Val Glu Phe Ala Thr Gly Glu Leu Leu Thr
35 40 45
Met Thr Gln Trp Pro Gly Val Trp Ile Pro Met Ala Ser Cys Ser Ser
50 55 60
Thr Trp Trp Ser Met Ala Leu Ser Pro Asp Ser Leu Ala Asp Ala Asp
65 70 75 80
Leu Gln Val Gln Asp Phe Glu Glu His Tyr Val Gln Thr Gly Pro Gly
85 90 95
Gln Leu Phe Val Gly Ser Thr Gln Arg Phe Phe Gln Gly Gly Leu Pro
100 105 110

Ser	Phe	Leu	Arg	Cys	Asn	His	Ser	Ile	Gln	Tyr	Asn	Ala	Ala	Arg	Gly	115	120	125
Pro	Gln	Pro	Gln	Leu	Val	Gln	His	Leu	Arg	Ala	Ser	Ala	Ile	Ser	Ser	130	135	140
Ala	Phe	Asp	Pro	Glu	Ala	Glu	Ala	Leu	Arg	Phe	Gln	Leu	Ala	Thr	Ala	145	150	155
Leu	Gln	Ala	Glu	Glu	Asn	Glu	Val	Gly	Cys	Pro	Glu	Gly	Phe	Glu	Leu	165	170	175
Asp	Ser	Gln	Gly	Ala	Phe	Cys	Val	Asp	Val	Asp	Glu	Cys	Ala	Trp	Asp	180	185	190
Ala	His	Leu	Cys	Arg	Glu	Gly	Gln	Arg	Cys	Val	Asn	Leu	Leu	Gly	Ser	195	200	205
Tyr	Arg	Cys	Leu	Pro	Asp	Cys	Gly	Pro	Gly	Phe	Arg	Val	Ala	Asp	Gly	210	215	220
Ala	Gly	Cys	Glu	Asp	Val	Asp	Glu	Cys	Leu	Glu	Gly	Leu	Asp	Asp	Cys	225	230	235
His	Tyr	Asn	Gln	Leu	Cys	Glu	Asn	Thr	Pro	Gly	Gly	His	Arg	Cys	Ser	245	250	255
Cys	Pro	Arg	Gly	Tyr	Arg	Met	Gln	Gly	Pro	Ser	Leu	Pro	Cys	Leu	Asp	260	265	270
Val	Asn	Glu	Cys	Leu	Gln	Leu	Pro	Lys	Ala	Cys	Ala	Tyr	Gln	Cys	His	275	280	285
Asn	Leu	Gln	Gly	Ser	Tyr	Arg	Cys	Leu	Cys	Pro	Pro	Gly	Gln	Thr	Leu	290	295	300
Leu	Arg	Asp	Gly	Lys	Ala	Cys	Thr	Ser	Leu	Glu	Arg	Asn	Gly	Gln	Asn	305	310	315
Val	Thr	Thr	Val	Ser	His	Arg	Gly	Pro	Leu	Leu	Pro	Trp	Leu	Arg	Pro	325	330	335
Trp	Ala	Ser	Ile	Pro	Gly	Thr	Ser	Tyr	His	Ala	Trp	Val	Ser	Leu	Arg	340	345	350
Pro	Gly	Pro	Met	Ala	Leu	Ser	Ser	Val	Gly	Arg	Ala	Trp	Cys	Pro	Pro	355	360	365
Gly	Phe	Ile	Arg	Gln	Asn	Gly	Val	Cys	Thr	Asp	Leu	Asp	Glu	Cys	Arg	370	375	380
Val	Arg	Asn	Leu	Cys	Gln	His	Ala	Cys	Arg	Asn	Thr	Glu	Gly	Ser	Tyr	385	390	395
Gln	Cys	Leu	Cys	Pro	Ala	Gly	Tyr	Arg	Leu	Leu	Pro	Ser	Gly	Lys	Asn	405	410	415

Cys Gln Asp Ile Asn Glu Cys Glu Glu Glu Ser Ile Glu Cys Gly Pro
 420 425 430
 Gly Gln Met Cys Phe Asn Thr Arg Gly Ser Tyr Gln Cys Val Asp Thr
 435 440 445
 Pro Cys Pro Ala Thr Tyr Arg Gln Gly Pro Ser Pro Gly Thr Cys Phe
 450 455 460
 Arg Arg Cys Ser Gln Asp Cys Gly Thr Gly Gly Pro Ser Thr Leu Gln
 465 470 475 480
 Tyr Arg Leu Leu Pro Leu Pro Leu Gly Val Arg Ala His His Asp Val
 485 490 495
 Ala Arg Leu Thr Ala Phe Ser Glu Val Gly Val Pro Ala Asn Arg Thr
 500 505 510
 Glu Leu Ser Met Leu Glu Pro Asp Pro Arg Ser Pro Phe Ala Leu Arg
 515 520 525
 Pro Leu Arg Ala Gly Leu Gly Ala Val Tyr Thr Arg Arg Ala Leu Thr
 530 535 540
 Arg Ala Gly Leu Tyr Arg Leu Thr Val Arg Ala Ala Pro Arg His
 545 550 555 560
 Gln Ser Val Phe Val Leu Leu Ile Ala Val Ser Pro Tyr Pro Tyr
 565 570 575

<210> 1797
 <211> 146
 <212> PRT
 <213> Homo sapiens

<400> 1797
 Met Arg Val Leu Val Val Thr Ile Ala Pro Ile Tyr Trp Ala Leu Ala
 1 5 10 15
 Arg Glu Ser Gly Glu Ala Leu Asn Gly His Ser Leu Thr Gly Gly Lys
 20 25 30
 Phe Arg Gln Ser His Thr Trp Ser Leu Leu Gln Gly Ala Ala His Asp
 35 40 45
 Asp Pro Val Ala Arg Gly Leu Asp Pro Asp Gly Leu Leu Leu Asp
 50 55 60
 Val Val Val Asn Gly Val Val Pro Gly Arg Ala Trp Leu Thr Gln Ile
 65 70 75 80
 Phe Lys Cys Arg Thr Leu Lys Lys His Tyr Val Gln Thr Arg Ala Trp
 85 90 95
 Pro Ala Val Arg Gly Leu His Thr Ala Leu Leu Pro Gly Arg Pro Pro

100 105 110
 Leu Val Pro Thr Leu Gln Pro Gln His Pro Val Gln Arg Gly Pro Gly
 115 120 125
 Pro Pro Ala Pro Ala Gly Ala Ala Pro Ala Gly Leu Ser Tyr Gln Leu
 130 135 140
 Gly Leu
 145

<210> 1798
 <211> 48
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1798
 Met Trp Asp Thr Phe Val Arg Asp Arg Asp Phe Ser Ala Tyr Leu Phe
 1 5 10 15
 Leu His Leu Leu Pro Pro Leu Ser Ala Cys Gly Leu Asn Ala Ser Leu
 20 25 30
 Tyr Thr Ala Thr Pro Ile Val Trp Val Xaa His Thr Ser Pro Gln Asp
 35 40 45

<210> 1799
 <211> 45
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1799
 Met Gln Ala Pro Leu Gln Asp Cys Gly Arg Ser Val Ser Leu Arg Leu
 1 5 10 15
 Ala Cys Val Leu Ala Pro Leu Thr Thr Ser Ser Arg Gly Cys His Leu
 20 25 30
 Gln Leu Pro Gln Asp Lys Gly Lys Ala Arg Xaa Asp Ser
 35 40 45

<210> 1800
 <211> 305
 <212> PRT
 <213> Homo sapiens

<400> 1800
 Met Gly Ile Leu Leu Gly Leu Leu Leu Leu Gly His Leu Thr Val Asp
 1 5 10 15
 Thr Tyr Gly Arg Pro Ile Leu Glu Val Pro Glu Ser Val Thr Gly Pro
 20 25 30
 Trp Lys Gly Asp Val Asn Leu Pro Cys Thr Tyr Asp Pro Leu Gln Gly
 35 40 45
 Tyr Thr Gln Val Leu Val Lys Trp Leu Val Gln Arg Gly Ser Asp Pro
 50 55 60
 Val Thr Ile Phe Leu Arg Asp Ser Ser Gly Asp His Ile Gln Gln Ala
 65 70 75 80
 Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val
 85 90 95
 Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr
 100 105 110
 Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp
 115 120 125
 Lys Ile Thr Glu Leu Arg Val Gln Lys His Ser Ser Lys Leu Leu Lys
 130 135 140
 Thr Lys Thr Glu Ala Pro Thr Thr Met Thr Tyr Pro Leu Lys Ala Thr
 145 150 155 160
 Ser Thr Val Lys Gln Ser Trp Asp Trp Thr Thr Asp Met Asp Gly Tyr
 165 170 175
 Leu Gly Glu Thr Ser Ala Gly Pro Gly Lys Ser Leu Pro Val Phe Ala
 180 185 190
 Ile Ile Leu Ile Ile Ser Leu Cys Cys Met Val Val Phe Thr Met Ala
 195 200 205
 Tyr Ile Met Leu Cys Arg Lys Thr Ser Gln Gln Glu His Val Tyr Glu
 210 215 220
 Ala Ala Arg Ala His Ala Arg Glu Ala Asn Asp Ser Gly Glu Thr Met
 225 230 235 240
 Arg Val Ala Ile Phe Ala Ser Gly Cys Ser Ser Asp Glu Pro Thr Ser
 245 250 255

Gln Asn Leu Gly Asn Asn Tyr Ser Asp Glu Pro Cys Ile Gly Gln Glu
260 265 270

Tyr Gln Ile Ile Ala Gln Ile Asn Gly Asn Tyr Ala Arg Leu Leu Asp
275 280 285

Thr Val Pro Leu Asp Tyr Glu Phe Leu Ala Thr Glu Gly Lys Ser Val
290 295 300

Cys
305

<210> 1801
<211> 97
<212> PRT
<213> Homo sapiens

<400> 1801
Met Tyr Arg Ala Ile Asp Ser Phe Pro Arg Trp Arg Ser Tyr Phe Tyr
1 5 10 15

Phe Ile Thr Leu Ile Phe Phe Leu Ala Trp Leu Val Lys Asn Val Phe
20 25 30

Ile Ala Val Ile Ile Glu Thr Phe Ala Glu Ile Arg Val Gln Phe Gln
35 40 45

Gln Met Trp Gly Ser Arg Ser Ser Thr Thr Ser Thr Ala Thr Thr Gln
50 55 60

Met Phe His Glu Asp Ala Ala Gly Gly Trp Gln Leu Val Ala Val Gly
65 70 75 80

Cys Gln Gln Ala Pro Gly Thr Arg Pro Ser Leu Pro Pro Gly Ala Val
85 90 95

Gln

<210> 1802
<211> 219
<212> PRT
<213> Homo sapiens

<400> 1802
Met Glu Met Ala Ser Lys Met Lys Asp Thr Gly Phe Ile Val Phe Ala
1 5 10 15

Val Leu Leu Leu Val Ser Cys Leu Ile Leu Ile Phe Val Ile Ala Pro
20 25 30

Arg Tyr Gly Gln Arg Asn Ile Leu Ile Tyr Ile Ile Ile Cys Ser Val
35 40 45

Ile Gly Ala Phe Ser Val Ala Ala Val Lys Gly Leu Gly Ile Thr Ile
 50 55 60
 Lys Asn Phe Phe Gln Gly Leu Pro Val Val Arg His Pro Leu Pro Tyr
 65 70 75 80
 Ile Leu Ser Leu Ile Leu Ala Leu Ser Leu Ser Thr Gln Val Asn Phe
 85 90 95
 Leu Asn Arg Ala Leu Asp Ile Phe Asn Thr Ser Leu Val Phe Pro Ile
 100 105 110
 Tyr Tyr Val Phe Phe Thr Thr Val Val Val Thr Ser Ser Ile Ile Leu
 115 120 125
 Phe Lys Glu Trp Tyr Ser Met Ser Ala Val Asp Ile Ala Gly Thr Leu
 130 135 140
 Ser Gly Phe Val Thr Ile Ile Leu Gly Val Phe Met Leu His Ala Phe
 145 150 155 160
 Lys Asp Leu Asp Ile Ser Cys Ala Ser Leu Pro His Met His Lys Asn
 165 170 175
 Pro Pro Pro Ser Pro Ala Pro Glu Pro Thr Val Ile Arg Leu Glu Asp
 180 185 190
 Lys Asn Val Leu Val Asp Asn Ile Glu Leu Ala Ser Thr Ser Ser Pro
 195 200 205
 Glu Glu Lys Pro Lys Val Phe Ile Ile His Ser
 210 215

<210> 1803

<211> 219

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (197)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1803

Met Glu Met Ala Ser Lys Met Lys Asp Thr Gly Phe Ile Val Phe Ala
 1 5 10 15

Val Leu Leu Leu Val Ser Cys Leu Ile Leu Ile Phe Val Ile Ala Pro
 20 25 30

Arg Tyr Gly Gln Arg Asn Ile Leu Ile Tyr Ile Ile Ile Cys Ser Val
 35 40 45
 Ile Gly Ala Phe Ser Val Ala Ala Val Lys Gly Leu Gly Ile Thr Ile
 50 55 60
 Lys Asn Phe Phe Gln Gly Leu Pro Val Val Arg His Pro Leu Pro Tyr
 65 70 75 80
 Ile Leu Ser Leu Ile Leu Ala Leu Ser Leu Ser Thr Gln Val Asn Phe
 85 90 95
 Leu Asn Arg Ala Leu Asp Ile Xaa Asn Thr Ser Leu Val Phe Pro Ile
 100 105 110
 Tyr Tyr Val Phe Phe Thr Thr Val Val Val Thr Ser Ser Ile Ile Leu
 115 120 125
 Phe Lys Glu Trp Tyr Ser Met Ser Ala Val Asp Ile Ala Gly Thr Leu
 130 135 140
 Ser Gly Phe Val Thr Ile Ile Leu Gly Val Phe Met Leu His Ala Phe
 145 150 155 160
 Lys Asp Leu Asp Ile Ser Cys Ala Ser Leu Pro His Met His Lys Asn
 165 170 175
 Pro Pro Pro Ser Pro Ala Pro Glu Pro Thr Val Ile Arg Leu Glu Asp
 180 185 190
 Lys Asn Val Leu Xaa Asp Asn Ile Glu Leu Ala Ser Thr Ser Ser Pro
 195 200 205
 Glu Glu Lys Pro Lys Val Phe Ile Ile His Ser
 210 215

<210> 1804
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 1804
 Met Gly Leu Trp Leu Gly Met Leu Ala Cys Val Phe Leu Ala Thr Ala
 1 5 10 15
 Ala Phe Val Ala Tyr Thr Ala Arg Leu Asp Trp Lys Leu Ala Ala Glu
 20 25 30
 Glu Ala Lys Lys His Ser Gly Arg Gln Gln Gln Gln Arg Ala Glu Ser
 35 40 45
 Thr Ala Thr Arg Pro Gly Pro Glu Lys Ala Val Leu Ser Ser Val Ala
 50 55 60

Thr Gly Ser Ser Pro Gly Ile Thr Leu Thr Thr Tyr Ser Arg Ser Glu
 65 70 75 80
 Cys His Val Asp Phe Phe Arg Thr Pro Glu Glu Ala His Ala Leu Ser
 85 90 95
 Ala Pro Thr Ser Arg Leu Ser Val Lys Gln Leu Val Ile Arg Arg Gly
 100 105 110
 Ala Ala Leu Gly Ala Ala Ser Ala His
 115 120

<210> 1805

<211> 218

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (217)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1805

Met Val Ser Trp Met Ile Cys Arg Leu Val Val Leu Val Phe Gly Met
 1 5 10 15
 Leu Cys Pro Ala Tyr Ala Ser Tyr Lys Ala Val Lys Thr Lys Asn Ile
 20 25 30
 Arg Glu Tyr Val Arg Trp Met Met Tyr Trp Ile Val Phe Ala Leu Phe
 35 40 45
 Met Ala Ala Glu Ile Val Thr Asp Ile Phe Ile Ser Trp Phe Pro Phe
 50 55 60
 Tyr Tyr Glu Ile Lys Met Ala Phe Val Leu Trp Leu Leu Ser Pro Tyr
 65 70 75 80
 Thr Lys Gly Ala Ser Cys Phe Thr Ala Ser Leu Ser Thr Arg Pro Cys
 85 90 95
 Pro Ala Met Arg Arg Arg Ser Thr Arg Thr Ser Cys Arg Pro Arg Ser
 100 105 110
 Ala Ala Thr Arg Pro Cys Ser Ala Ser Gly Ser Gly Ala Ser Thr Leu
 115 120 125
 Pro Pro Pro Leu Leu Cys Arg Leu Pro Pro Xaa Val Arg Gly Arg Trp
 130 135 140

Pro Ala Gly Cys Gly Ala Ser Pro Cys Arg Thr Cys AlaPro Ser Leu
 145 150 155 160
 Thr His Leu Pro Leu Pro Thr Met Thr Pro Ser Thr Trp Arg Thr Arg
 165 170 175
 Cys Pro Thr Gly Gly His Pro Leu Gly Thr Gly ProGly Ala Cys Arg
 180 185 190
 Thr Ala Thr Pro Arg Met Ser Val Gly Gln Ile Leu Arg Gln Ser Pro
 195 200 205
 Gly Arg Gln Pro Gly Pro Glu Arg Xaa Pro
 210 215

<210> 1806
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1806
 Met Val Ile Ser Ile Phe Phe Ser Leu Pro Phe Ser Thr Ser Ala Tyr
 1 5 10 15
 Thr Leu Ile Ala Pro Asn Ile Asn Arg Arg AsnGlu Ile Gln Arg Ile
 20 25 30
 Ala Asp Arg Ser Trp Pro Thr Trp Arg Ser Gly Arg Ser Arg Thr Glu
 35 40 45
 Leu Asn Arg Phe Thr Trp Cys Pro Asp Gly
 50 55

<210> 1807
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 1807
 Met Ile Ile Ala Asn Ile Phe Met Asn Pro Leu Leu Cys Ala Gly Tyr
 1 5 10 15
 Leu Phe Cys Phe Ala Tyr Thr Leu Ile HisLeu Ile Leu Leu Thr Thr
 20 25 30
 Ser Glu Val Cys Ser Ile Thr Ala Pro Phe Phe Thr Ala Val Leu Gln
 35 40 45
 Ser Ser Ala Cys Pro Ser Thr His Trp Pro Glu
 50 55

<210> 1808
 <211> 327
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (300)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1808
 Met Trp Arg Pro Ser Val Leu Leu Leu Leu Leu Leu Arg His Gl
 1 5 10 15
 Ala Gln Gly Lys Pro Ser Pro Asp Ala Gly Pro His Gly Gln Gly Arg
 20 25 30
 Val His Gln Ala Ala Pro Leu Ser Asp Ala Pro His Asp Asp Ala His
 35 40 45
 Gly Asn Phe Gln Tyr Asp His Glu Ala Phe Leu Gly Arg Glu Val Ala
 50 55 60
 Lys Glu Phe Asp Gln Leu Thr Pro Glu Glu Ser Gln Ala Arg Leu Gly
 65 70 75 80
 Arg Ile Val Asp Arg Met Asp Arg Ala Gly Asp Gly Asp Gly Trp Val
 85 90 95
 Ser Leu Ala Glu Leu Arg Ala Trp Ile Ala His Thr Gln Gln Arg His
 100 105 110
 Ile Arg Asp Ser Val Ser Ala Ala Trp Asp Thr Tyr Asp Thr Asp Arg
 115 120 125
 Asp Gly Arg Val Gly Trp Glu Glu Leu Arg Asn Ala Thr Tyr Gly His
 130 135 140
 Tyr Ala Pro Gly Glu Glu Phe His Asp Val Glu Asp Ala Glu Thr Tyr
 145 150 155 160
 Lys Lys Met Leu Ala Arg Asp Glu Arg Arg Phe Arg Val Ala Asp Gln
 165 170 175
 Asp Gly Asp Ser Met Ala Thr Arg Glu Glu Leu Thr Ala Phe Leu His
 180 185 190
 Pro Glu Glu Phe Pro His Met Arg Asp Ile Val Ile Ala Glu Thr Leu
 195 200 205
 Glu Asp Leu Asp Arg Asn Lys Asp Gly Tyr Val Gln Val Glu Glu Tyr
 210 215 220
 Ile Ala Asp Leu Tyr Ser Ala Glu Pro Gly Glu Glu Glu Pro Ala Trp
 225 230 235 240
 Val Gln Thr Glu Arg Gln Gln Phe Arg Asp Phe Arg Asp Leu Asn Lys

	245		250		255
Asp Gly His Leu Asp Gly Ser Glu Val Gly His Trp Val Leu Pro Pro					
	260		265		270
Ala Gln Asp Gln Pro Leu Val Glu Ala Asn His Leu Leu His Glu Ser					
	275		280		285
Asp Thr Asp Lys Asp Gly Arg Leu Ser Lys Ala Xaa Ile Leu Gly Asn					
	290		295		300
Trp Asn Met Phe Val Gly Ser Gln Ala Thr Asn Tyr Gly Glu Asp Leu					
	305		310		315
					320
Thr Arg His His Asp Glu Leu					
	325				

<210> 1809

<211> 184

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (148)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (165)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1809

Met Trp Arg Pro Ser Val Leu Leu Leu Leu Leu Leu Arg His Gly
1 5 10 15

Ala Gln Gly Lys Pro Ser Pro Asp Ala Gly Pro His Gly Gln Gly Arg
20 25 30

Val His Gln Ala Ala Pro Leu Ser Asp Ala Pro His Asp Asp Ala His

Pro Glu Gly Val Phe Val Asn Thr Leu Gly Leu Leu Ile Leu Val Phe
85 90 95
Gly Ala Leu Ile Phe Trp Ile Val Thr Arg Pro Gln Trp Lys Arg Pro
100 105 110
Lys Glu Pro Asn Ser Thr Ile Leu His Pro Asn Gly Gly Thr Glu Gln
115 120 125
Gly Ala Arg Gly Ser Met Pro Ala Tyr Ser Gly Asn Asn Met Asp Lys
130 135 140
Ser Asp Ser Glu Leu Asn Xaa Glu Val Ala Ala Arg Lys Arg Asn Leu
145 150 155 160
Ala Leu Asp Glu Ala Gly Gln Arg Ser Thr Met
165 170

<210> 1811
<211> 509
<212> PRT
<213> Homo sapiens

<400> 1811
Met Thr Trp Arg Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp
1 5 10 15
Leu Val Cys Gly Ser Glu Pro His Pro His Ala Thr Ile Arg Gly Ser
20 25 30
His Gly Gly Arg Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro
35 40 45
Ala Arg Phe Leu Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser
50 55 60
Thr Leu Glu Glu Pro Asn Leu Gln Pro Leu Gln Arg Arg Arg Ser Val
65 70 75 80
Pro Val Leu Arg Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp
85 90 95
Ile Asn Gly Ala Ala Val Arg Pro Glu Gln Arg Pro Ala Ala Arg Gly
100 105 110
Ser Pro Arg Glu Met Ile Arg Asp Glu Gly Ser Ser Ala Arg Ser Arg
115 120 125
Met Leu Arg Phe Pro Ser Gly Ser Ser Ser Pro Asn Ile Leu Ala Ser
130 135 140
Phe Ala Gly Lys Asn Arg Val Trp Val Ile Arg Ala Pro His Ala Ser
145 150 155 160
Glu Gly Tyr Tyr Arg Leu Met Met Ser Leu Leu Lys Asp Asp Val Tyr

165 170 175
 Cys Glu Leu Ala Glu Arg His Ile Gln Gn Ile Val Leu Phe His Gln
 180 185 190
 Ala Gly Glu Glu Gly Gly Lys Val Arg Arg Ile Thr Ser Glu Gly Gln
 195 200 205
 Ile Leu Glu Gln Pro Leu Asp Pro Ser Leu Ile Pro Lys Leu Met Ser
 210 215 220
 Phe Leu Lys Leu Glu Lys Gly Lys Phe Gly Met Val Leu Leu Lys Lys
 225 230 235 240
 Thr Leu Gln Val Glu Glu Arg Tyr Pro Tyr Pro Val Arg Leu Leu Ala
 245 250 255
 Met Tyr Glu Val Ile Asp Gln Gly Pro Ile Arg Arg Ile Glu Lys Ile
 260 265 270
 Arg Gln Lys Gly Phe Val Gln Lys Cys Lys Ala Ser Gly Val Glu Lys
 275 280 285
 Gln Val Val Ala Glu Gly Asn Asp Gly Gly Gly Gly Ala Gly Arg Pro
 290 295 300
 Ser Leu Gly Ser Glu Lys Lys Lys Glu Asp Pro Arg Arg Ala Gln Val
 305 310 315 320
 Pro Pro Thr Arg Glu Ser Arg Val Lys Val Leu Arg Lys Leu Ala Ala
 325 330 335
 Thr Ala Pro Ala Phe Pro Gln Pro Pro Ser Thr Pro Arg Ala Thr Thr
 340 345 350
 Leu Pro Pro Ala Pro Ala Thr Thr Val Thr Arg Ser Thr Ser Arg Ala
 355 360 365
 Val Thr Val Ala Ala Arg Pro Met Thr Thr Thr Ala Phe Pro Thr Thr
 370 375 380
 Gln Arg Pro Trp Thr Pro Ser Pro Ser His Arg Pro Pro Thr Thr Thr
 385 390 395 400
 Glu Val Ile Thr Ala Arg Arg Pro Ser Val Ser Glu Asn Leu Tyr Pro
 405 410 415
 Pro Ser Arg Lys Asp Gln His Arg Glu Arg Pro Gln Thr Thr Arg Arg
 420 425 430
 Pro Ser Lys Ala Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr
 435 440 445
 Thr Ile Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro Gly Arg Phe Arg
 450 455 460
 Asp Asn Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val

Glu Lys Gly Lys Phe Gly Met Val Leu Leu Lys Lys Thr Leu Gln Val
 225 230 235 240
 Glu Glu Arg Tyr Pro Tyr Pro Val Arg Leu Glu Ala Met Tyr Glu Val
 245 250 255
 Ile Asp Gln Gly Pro Ile Arg Arg Ile Glu Lys Ile Arg Gln Lys Gly
 260 265 270
 Phe Val Gln Lys Cys Lys Ala Ser Gly Val Glu Gly Gln Val Val Ala
 275 280 285
 Glu Gly Asn Asp Gly Gly Gly Gly Ala Gly Arg Pro Ser Gln Gly Ser
 290 295 300
 Glu Lys Lys Lys Glu Asp Pro Arg Arg Ala Gln Val Pro Pro Thr Arg
 305 310 315 320
 Glu Ser Arg Val Lys Val Leu Arg Lys Leu Ala Ala Thr Ala Pro Ala
 325 330 335
 Phe Pro Gln Pro Pro Ser Thr Pro Arg Ala Thr Thr Leu Thr Pro Ala
 340 345 350
 Pro Ala Thr Thr Val Thr Arg Ser Thr Ser Arg Ala Gly Asn Arg Cys
 355 360 365
 Cys Lys Thr Tyr Asp His His Trp Leu Ser His His Ala Glu Ala Leu
 370 375 380
 Asp Pro Leu Thr Leu Pro Thr Gly Pro Leu Gln Pro Leu Arg Val Ile
 385 390 395 400
 Thr Ala Arg Arg Pro Ser Val Ser Arg Glu Ser Leu Pro Ser Ile Pro
 405 410 415
 Gly Arg Ile Ser Thr Gly Arg Gly His Arg Gln Pro Gly Gly Pro Ala
 420 425 430
 Arg Pro Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr Thr Ile
 435 440 445
 Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro Gly Arg Phe Arg Asp Asn
 450 455 460
 Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val Val Pro
 465 470 475 480
 Gly Pro Pro Lys Pro Ala Lys Glu Lys Pro Pro Lys Lys Lys Ala Gln
 485 490 495
 Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Lys Tyr Asp Leu Ser Arg
 500 505 510
 Pro Thr Ala Ser Gln Leu Glu Asp Glu Leu Gln Val Gly Asn Val Pro
 515 520 525

Leu Lys Lys Ala Lys Glu Ser Lys Lys His Glu Lys Leu Glu Lys Pro
 530 535 540

Glu Lys Glu Lys Lys Lys Lys Lys Lys
 545 550

<210> 1813
 <211> 247
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (166)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1813
 Met His Leu Ala Arg Leu Val Gly Ser Cys Ser Leu Leu Leu Leu
 1 5 10 15

Gly Ala Leu Ser Gly Trp Ala Ala Ser Asp Asp Pro Ile Glu Lys Val
 20 25 30

Ile Glu Gly Ile Asn Arg Gly Leu Ser Asn Ala Glu Arg Glu Val Gly
 35 40 45

Lys Ala Leu Asp Gly Ile Asn Ser Gly Ile Thr His Ala Gly Arg Glu
 50 55 60

Val Glu Lys Val Phe Asn Gly Leu Ser Asn Met Gly Ser His Thr Gly
 65 70 75 80

Lys Glu Leu Asp Lys Gly Val Gln Gly Leu Asn His Gly Met Asp Lys
 85 90 95

Val Ala His Glu Ile Asn His Gly Ile Gly Gln Ala Gly Lys Glu Ala
 100 105 110

Glu Lys Leu Gly His Gly Val Asn Asn Ala Ala Gly Gln Ala Gly Lys
 115 120 125

Glu Ala Asp Lys Ala Val Gln Gly Phe His Thr Gly Val His Gln Ala
 130 135 140

Gly Lys Glu Ala Glu Lys Leu Gly Gln Gly Val Asn His Ala Ala Asp
 145 150 155 160

Gln Ala Gly Lys Glu Xaa Glu Lys Leu Gly Pro Ser Ala His His Ala
 165 170 175

Ala Gly Gln Ala Gly Lys Glu Leu Gln Asn Ala His Asn Gly Val Asn
 180 185 190

Gln Ala Ser Lys Glu Ala Asn Gln Leu Leu Asn Gly Asn His Gln Ser

195 200 205
 Gly Ser Ser Ser His Gln Gly Gly Ala Thr Thr Thr Pro Leu Ala Ser
 210 215 220
 Gly Ala Ser Val Asn Thr Pro Phe Ile Asn Leu Pro Ala Leu Trp Arg
 225 230 235 240
 Ser Val Ala Asn Ile Met Pro
 245

<210> 1814
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1814
 Met Ala Gly Cys Cys Leu Lys Leu Phe Gly Val Leu Ser Leu Cys Phe
 1 5 10 15
 Leu Cys Gly Leu Ile Ser Ile Glu Arg Val Ile Cys Asn Pro Val Ser
 20 25 30
 Ala Asp Phe Gln Val Ser Thr Phe Cys Gln Arg His Cys Leu Leu Arg
 35 40 45
 Ser Lys Val Met Phe Pro Ile Arg Gly
 50 55

<210> 1815
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 1815
 Met Phe Thr Leu Leu Leu Ser Ser Phe Phe Leu Gln His Cys Leu Gln
 1 5 10 15
 Asn Asn Leu Tyr Ala Ser Glu Arg Glu Gln Ile Phe Ser Asn Phe Leu
 20 25 30
 Gln Leu Ser Ser Leu Lys Arg Arg Ile Cys
 35 40

<210> 1816
 <211> 6
 <212> PRT
 <213> Homo sapiens

<400> 1816
 Leu Leu Leu Ser Ser Phe

1

5

<210> 1817

<211> 41

<212> PRT

<213> Homo sapiens

<400> 1817

Met Leu Val Ser Met Cys Met Gly Leu Leu Phe Leu Gln Val Gly Lys
 1 5 10 15

Gln Cys Ile Ala Phe Phe Tyr Thr Glu Ser Thr Arg Arg Pro Lys His
 20 25 30

Leu Lys Thr Met Gly Ser Gly Tyr Ala
 35 40

<210> 1818

<211> 218

<212> PRT

<213> Homo sapiens

<400> 1818

Met His Phe Leu Phe Arg Phe Ile Val Phe Phe Tyr Leu Trp Gly Leu
 1 5 10 15

Phe Thr Ala Gln Arg Gln Lys Lys Glu Glu Ser Thr Glu Glu Val Lys
 20 25 30

Ile Glu Val Leu His Arg Pro Glu Asn Cys Ser Lys Thr Ser Lys Lys
 35 40 45

Gly Asp Leu Leu Asn Ala His Tyr Asp Gly Tyr Leu Ala Lys Asp Gly
 50 55 60

Ser Lys Phe Tyr Cys Ser Arg Thr Gln Asn Glu Gly His Pro Lys Trp
 65 70 75 80

Phe Val Leu Gly Val Gly Gln Val Ile Lys Gly Leu Asp Ile Ala Met
 85 90 95

Thr Asp Met Cys Pro Gly Glu Lys Arg Lys Val Val Ile Pro Pro Ser
 100 105 110

Phe Ala Tyr Gly Lys Glu Gly Tyr Ala Glu Gly Lys Ile Pro Pro Asp
 115 120 125

Ala Thr Leu Ile Phe Glu Ile Glu Leu Tyr Ala Val Thr Lys Gly Pro
 130 135 140

Arg Ser Ile Glu Thr Phe Lys Gln Ile Asp Met Asp Asn Asp Arg Gln
 145 150 155 160

Leu Ser Lys Ala Glu Ile Asn Leu Tyr Leu Gln Arg Glu Phe Glu Lys
 165 170 175
 Asp Glu Lys Pro Arg Asp Lys Ser Tyr Gln Asp Ala Val Leu Glu Asp
 180 185 190
 Ile Phe Lys Lys Asn Asp His Asp Gly Asp Gly Phe Ile Ser Pro Lys
 195 200 205
 Glu Tyr Asn Val Tyr Gln His Asp Glu Leu
 210 215

<210> 1819
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1819
 Met His Phe Leu Phe Arg Phe Ile Val Phe Phe Tyr Leu Trp Gly Leu
 1 5 10 15
 Phe Thr Ala Gln Arg Gln Lys Lys Glu Glu Ser Thr Glu Glu Val Lys
 20 25 30
 Ile Glu Val Leu His Arg Pro Glu Asn Cys Ser Lys Thr Ser Lys Lys
 35 40 45
 Gly Asp Leu Leu Lys Cys Pro Leu
 50 55

<210> 1820
 <211> 606
 <212> PRT
 <213> Homo sapiens

<400> 1820
 Met Thr Val Val Gly Asn Pro Arg Ser Trp Ser Cys Gln Trp Leu Pro
 1 5 10 15
 Ile Leu Ile Leu Leu Leu Gly Thr Gly His Gly Pro Gly Val Glu Gly
 20 25 30
 Val Thr His Tyr Lys Ala Gly Asp Pro Val Ile Leu Tyr Val Asn Lys
 35 40 45
 Val Gly Pro Tyr His Asn Pro Gln Glu Thr Tyr His Tyr Tyr Gln Leu
 50 55 60
 Pro Val Cys Cys Pro Glu Lys Ile Arg His Lys Ser Leu Ser Leu Gly
 65 70 75 80
 Glu Val Leu Asp Gly Asp Arg Met Ala Glu Ser Leu Tyr Glu Ile Arg
 85 90 95

Phe Arg Glu Asn Val Glu Lys Arg Ile Leu Cys His Met Gln Leu Ser
100 105 110
Ser Ala Gln Val Glu Gln Leu Arg Gln Ala Ile Glu Glu Leu Tyr Tyr
115 120 125
Phe Glu Phe Val Val Asp Asp Leu Pro Ile Arg Gly Phe Val Gly Tyr
130 135 140
Met Glu Glu Ser Gly Phe Leu Pro His Ser His Lys Ile Gly Leu Trp
145 150 155 160
Thr His Leu Asp Phe His Leu Glu Phe His Gly Asp Arg Ile Ile Phe
165 170 175
Ala Asn Val Ser Val Arg Asp Val Lys Pro His Ser Leu Asp Gly Leu
180 185 190
Arg Pro Asp Glu Phe Leu Gly Leu Thr His Thr Tyr Ser Val Arg Trp
195 200 205
Ser Glu Thr Ser Val Glu Arg Arg Ser Asp Arg Arg Arg Gly Asp Asp
210 215 220
Gly Gly Phe Phe Pro Arg Thr Leu Glu Ile His Trp Leu Ser Ile Ile
225 230 235 240
Asn Ser Met Val Leu Val Phe Leu Leu Val Gly Phe Val Ala Val Ile
245 250 255
Leu Met Arg Val Leu Arg Asn Asp Leu Ala Arg Tyr Asn Leu Asp Glu
260 265 270
Glu Thr Thr Ser Ala Gly Ser Gly Asp Asp Phe Asp Gln Gly Asp Asn
275 280 285
Gly Trp Lys Ile Ile His Thr Asp Val Phe Arg Phe Pro Pro Tyr Arg
290 295 300
Gly Leu Leu Cys Ala Val Leu Gly Val Gly Ala Gln Phe Leu Ala Leu
305 310 315 320
Gly Thr Gly Ile Ile Val Met Ala Leu Leu Gly Met Phe Asn Val His
325 330 335
Arg His Gly Ala Ile Asn Ser Ala Ala Ile Leu Leu Tyr Ala Leu Thr
340 345 350
Cys Cys Ile Ser Gly Tyr Val Ser Ser His Phe Tyr Arg Gln Ile Gly
355 360 365
Gly Glu Arg Trp Val Trp Asn Ile Ile Leu Thr Thr Ser Leu Phe Ser
370 375 380
Val Pro Phe Phe Leu Thr Trp Ser Val Val Asn Ser Val His Trp Ala
385 390 395 400

Asn Gly Ser Thr Gln Ala Leu Pro Ala Thr Thr Ile Leu Leu Leu Leu
 405 410 415
 Thr Val Trp Leu Leu Val Gly Phe Pro Leu Thr Val Ile Gly Gly Ile
 420 425 430
 Phe Gly Lys Asn Asn Ala Ser Pro Phe Asp Ala Pro Cys Arg Thr Lys
 435 440 445
 Asn Ile Ala Arg Glu Ile Pro Pro Gln Pro Trp Tyr Lys Ser Thr Val
 450 455 460
 Ile His Met Thr Val Gly Gly Phe Leu Pro Phe Ser Ala Ile Ser Val
 465 470 475 480
 Glu Leu Tyr Tyr Ile Phe Ala Thr Val Trp Gly Arg Glu Gln Tyr Thr
 485 490 495
 Leu Tyr Gly Ile Leu Phe Phe Val Phe Ala Ile Leu Leu Ser Val Gly
 500 505 510
 Ala Cys Ile Ser Ile Ala Leu Thr Tyr Phe Gln Leu Ser Gly Glu Asp
 515 520 525
 Tyr Arg Trp Trp Trp Arg Ser Val Leu Ser Val Gly Ser Thr Gly Leu
 530 535 540
 Phe Ile Phe Leu Tyr Ser Val Phe Tyr Tyr Ala Arg Arg Ser Asn Met
 545 550 555 560
 Ser Gly Ala Val Gln Thr Val Glu Phe Phe Gly Tyr Ser Leu Leu Thr
 565 570 575
 Gly Tyr Val Phe Phe Leu Met Leu Gly Thr Ile Ser Phe Phe Ser Ser
 580 585 590
 Leu Lys Phe Ile Arg Tyr Ile Tyr Val Asn Leu Lys Met Asp
 595 600 605

<210> 1821
 <211> 295
 <212> PRT
 <213> Homo sapiens

<400> 1821
 Met Gly Leu Pro Val Ser Trp Ala Pro Pro Ala Leu Trp Val Leu Gly
 1 5 10 15
 Cys Cys Ala Leu Leu Leu Ser Leu Trp Ala Leu Cys Thr Ala Cys Arg
 20 25 30
 Arg Pro Glu Asp Ala Val Ala Pro Arg Lys Arg Ala Arg Arg Gln Arg
 35 40 45

Ala Arg Leu Gln Gly Ser Ala Thr Ala AlaGlu Ala Ser Leu Leu Arg
 50 55 60
 Arg Thr His Leu Cys Ser Leu Ser Lys Ser Asp Thr Arg Leu His Glu
 65 70 75 80
 Leu His Arg Gly Pro Arg Ser Ser Arg Ala Leu ArgPro Ala Ser Met
 85 90 95
 Asp Leu Leu Arg Pro His Trp Leu Glu Val Ser Arg Asp Ile Thr Gly
 100 105 110
 Pro Gln Ala Ala Pro Ser Ala Phe Pro His Gln Glu LeuPro Arg Ala
 115 120 125
 Leu Pro Ala Ala Ala Ala Thr Ala Gly Cys Ala Gly Leu Glu Ala Thr
 130 135 140
 Tyr Ser Asn Val Gly Leu Ala Ala Leu Pro Gly Val Ser Leu Ala Ala
 145 150 155 160
 Ser Pro Val Val Ala Glu Tyr Ala Arg Val Gln Lys Arg Lys Gly Thr
 165 170 175
 His Arg Ser Pro Gln Glu Pro Gln Gln Gly Lys Thr Glu Val Thr Pro
 180 185 190
 Ala Ala Gln Val Asp Val Leu Tyr Ser Arg Val Cys Lys Pro Lys Arg
 195 200 205
 Arg Asp Pro Gly Pro Thr Thr Asp Pro Leu Asp Pro Lys Gly Gln Gly
 210 215 220
 Ala Ile Leu Ala Leu Ala Gly Asp Leu Ala Tyr Gln Thr Leu Pro Leu
 225 230 235 240
 Arg Ala Leu Asp Val Asp Ser Gly Pro Leu Glu Asn Val Tyr Glu Ser
 245 250 255
 Ile Arg Glu Leu Gly Asp Pro Ala Gly Arg Ser Ser Thr Cys Gly Ala
 260 265 270
 Gly Thr Pro Pro Ala Ser Ser Cys Pro Ser Leu Gly Arg Gly Trp Arg
 275 280 285
 Pro Leu Pro Ala Ser Leu Pro
 290 295

<210> 1822

<211> 37

<212> PRT

<213> Homo sapiens

<400> 1822

Met Gly Leu Pro Val Ser Trp Ala Pro Pro Ala Leu Trp Val Leu Gly

1 5 10 15
 Cys Cys Ala Leu Leu Leu Ser Leu Trp Ala Leu Cys Thr Ala Cys Arg
 20 25 30
 Ser Pro Arg Thr Leu
 35

<210> 1823
 <211> 172
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (107)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (132)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1823
 Met Ser Phe Leu Cys Leu Val Val Leu Tyr Tyr Ile Val Trp Ser Leu
 1 5 10 15
 Leu Phe Leu Arg Ser Leu Asp Val Val Ala Glu Gln Arg Arg Thr His
 20 25 30
 Val Thr Met Ala Ile Ser Trp Ile Thr Ile Val Val Pro Leu Leu Thr
 35 40 45
 Phe Glu Val Leu Leu Val His Arg Leu Asp Gly His Asn Thr Phe Ser
 50 55 60
 Tyr Val Ser Ile Phe Val Pro Leu Trp Leu Ser Leu Leu Thr Leu Met
 65 70 75 80
 Ala Thr Thr Phe Arg Arg Lys Gly Gly Asn His Trp Trp Phe Gly Ile
 85 90 95
 Arg Arg Asp Phe Cys Gln Phe Leu Leu Glu Xaa Phe Pro Phe Leu Arg
 100 105 110
 Glu Tyr Gly Asn Ile Ser Tyr Asp Leu His His Glu Asp Ser Glu Asp
 115 120 125
 Ala Glu Glu Xaa Ser Val Pro Glu Ala Pro Lys Ile Ala Pro Ile Phe
 130 135 140
 Gly Lys Lys Ala Arg Val Val Ile Thr Gln Ser Pro Gly Lys Tyr Val
 145 150 155 160
 Pro Pro Pro Pro Lys Leu Asn Ile Asp Met Pro Asp

165

170

<210> 1824
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 1824
 Met Leu Ser Ala Val Leu Thr Met Leu Arg Phe Ile Ile Ala Phe Ser
 1 5 10 15
 Leu Leu Phe Cys Ser Cys Ser Thr Asp Lys His Cys Thr Trp Tr His
 20 25 30
 Ala Leu Pro His Phe Lys Lys Ile Cys Leu Thr Glu Arg Lys Lys Met
 35 40 45
 Trp Phe Gly Leu Ala Ala Val Leu Ile Tyr Gly Ile
 50 55 60

<210> 1825
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 1825
 Ile Thr Phe Ser Cys Phe Phe Cys Asn Asn Cys Ser Gln Val Asn Leu
 1 5 10 15
 Gln

<210> 1826
 <211> 56
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (30)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1826

Met Arg Phe Trp Phe Leu Val Phe Xaa Phe Phe Phe Phe Pro Glu Ala
1 5 10 15

His Val Tyr Pro Thr Ser Trp Xaa Val Ser Gu Gln Gly Xaa Ala Thr
20 25 30

Ile Ser Val Thr Pro Gly Ile Leu Asn Trp Ile Phe Val Glu Glu Glu
35 40 45

Asn Asn Thr Val Leu Asp Phe Pro
50 55

<210> 1827

<211> 106

<212> PRT

<213> Homo sapiens

<400> 1827

Arg Ser Arg Ser Lys Pro Arg Cys Asn Cys Glu Ile Val Thr Ile Phe
1 5 10 15

Phe Ala Arg Phe Lys Ile Gly Pro Gly Arg HisArg Lys Arg Lys Ile
20 25 30

Pro Lys Leu Cys Ser Ser Gly Ser Thr Ile Gly Arg Val Tyr Ser Leu
35 40 45

Pro Gly Leu Leu Arg Arg Gly Ser Cys Leu Phe Gly Tyr IleThr Pro
50 55 60

Asp Trp Phe Val Leu Lys Ile Asn Val Ile Met Leu Val Ser Tyr Leu
65 70 75 80

Met Val Ser Leu Glu His Ser Pro Leu Ile Leu Phe Glu Arg Val Gly
85 90 95

Gly Arg Asp Cys Glu Gly Arg Glu Lys Cys
100 105

<210> 1828

<211> 279

<212> PRT

<213> Homo sapiens

<400> 1828

Glu Glu Arg Trp Lys Ser Pro Glu Val ArgTrp Ala Pro Gly Val Ala
1 5 10 15

Met Glu Glu Ser Gly Tyr Glu Ser Val Leu Cys Val Lys Pro Asp Val
20 25 30

His Val Tyr Arg Ile Pro Pro Arg Ala Thr AsnArg Gly Tyr Arg Ala
 35 40 45
 Ala Glu Trp Gln Leu Asp Gln Pro Ser Trp Ser Gly Arg Leu Arg Ile
 50 55 60
 Thr Ala Lys Gly Gln Met Ala Tyr Ile Lys Leu Glu Asp Arg Thr Ser
 65 70 75 80
 Gly Glu Leu Phe Ala Gln Ala Pro Val Asp Gln Phe Pro Gly Thr Ala
 85 90 95
 Val Glu Ser Val Thr Asp Ser Ser Arg Tyr Phe Val Ile Arg IleGlu
 100 105 110
 Asp Gly Asn Gly Arg Arg Ala Phe Ile Gly Ile Gly Phe Gly Asp Arg
 115 120 125
 Gly Asp Ala Phe Asp Phe Asn Val Ala Leu Gln Asp His Phe Lys Trp
 130 135 140
 Val Lys Gln Gln Cys Glu Phe Ala Lys Gln Ala Gln Asn Pro Asp Gln
 145 150 155 160
 Gly Pro Lys Leu Asp Leu Gly Phe Lys Glu Gly Gln Thr Ile Lys Leu
 165 170 175
 Asn Ile Ala Asn Met Lys Lys Lys Glu Gly Ala Ala Gly Asn Pro Arg
 180 185 190
 Val Arg Pro Ala Ser Thr Gly Gly Leu Ser Leu Leu Pro Pro Pro Pro
 195 200 205
 Gly Gly Lys Thr Ser Thr Leu Ile Pro Pro Pro Gly Glu Gln Leu Ala
 210 215 220
 Val Gly Gly Ser Leu Val Gln Pro Ala Val Ala Pro Ser Ser Gly Gly
 225 230 235 240
 Ala Pro Val Pro Trp Pro Gln Pro Asn Pro Ala Thr Ala Asp Ile Trp
 245 250 255
 Gly Asp Phe Thr Lys Ser Thr Gly Ser Thr Ser Ser Gln Thr Gln Pro
 260 265 270
 Gly Thr Gly Trp Val Gln Phe
 275

<210> 1829
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 1829
 Met Leu Phe Pro Leu Leu Ala Trp Pro His Leu Leu Ser Leu Trp Val

1	5	10	15												
Cys	Leu	Thr	Ala	Thr	Ser	Pro	Ser	Lys	Pro	Ser	Ala	Pro	His	Ser	His
			20					25					30		
Gln	Met	Asp	Leu	Cys	Leu	Leu	His								
		35					40								
<210> 1830															
<211> 305															
<212> PRT															
<213> Homo sapiens															
<400> 1830															
Met	Ala	Ala	Gly	Leu	Ala	Arg	Leu	Leu	Leu	Leu	Leu	Gly	Leu	Ser	Ala
1				5					10					15	
Gly	Gly	Pro	Ala	Pro	Ala	Gly	Ala	Ala	Lys	Met	Lys	Val	Val	Glu	Glu
			20					25					30		
Pro	Asn	Ala	Phe	Gly	Val	Asn	Asn	Pro	Phe	Leu	Pro	Gln	Ala	Ser	Arg
		35					40					45			
Leu	Gln	Ala	Lys	Arg	Asp	Pro	Ser	Pro	Val	Ser	Gly	Pro	Val	His	Leu
	50					55					60				
Phe	Arg	Leu	Ser	Gly	Lys	Cys	Phe	Ser	Leu	Val	Glu	Ser	Thr	Tyr	Lys
65					70					75					80
Tyr	Glu	Phe	Cys	Pro	Phe	His	Asn	Val	Thr	Gln	His	Glu	Gln	Thr	Phe
			85					90						95	
Arg	Trp	Asn	Ala	Tyr	Ser	Gly	Ile	Leu	Gly	Ile	Trp	His	Glu	Trp	Glu
		100						105					110		
Ile	Ala	Asn	Asn	Thr	Phe	Thr	Gly	Met	Trp	Met	Arg	Asp	Gly	Asp	Ala
		115					120					125			
Cys	Arg	Ser	Arg	Ser	Arg	Gln	Ser	Lys	Val	Glu	Leu	Ala	Cys	Gly	Lys
	130					135					140				
Ser	Asn	Arg	Leu	Ala	His	Val	Ser	Glu	Pro	Ser	Thr	Cys	Val	Tyr	Ala
145					150					155					160
Leu	Thr	Phe	Glu	Thr	Pro	Leu	Val	Cys	His	Pro	His	Ala	Leu	Leu	Val
			165					170					175		
Tyr	Pro	Thr	Leu	Pro	Glu	Ala	Leu	Gln	Arg	Gln	Trp	Asp	Gln	Val	Glu
		180						185					190		
Gln	Asp	Leu	Ala	Asp	Glu	Leu	Ile	Thr	Pro	Gln	Gly	His	Glu	Lys	Leu
	195						200					205			
Leu	Arg	Thr	Leu	Phe	Glu	Asp	Ala	Gly	Tyr	Leu	Lys	Thr	Pro	Glu	Glu
	210					215					220				

Asn Glu Pro Thr Gln Leu Glu Gly Gly Pro Asn Ser Leu Gly Phe Glu
 225 230 235 240
 Thr Leu Glu Asn Cys Arg Lys Ala His Lys Glu Leu Ser Lys Glu Ile
 245 250 255
 Lys Arg Leu Lys Gly Leu Leu Thr Gln His Gly Ile Pro Tyr Thr Arg
 260 265 270
 Pro Thr Glu Thr Ser Asn Leu Glu His Leu Gly His Glu Thr Pro Arg
 275 280 285
 Ala Lys Ser Pro Glu Gln Leu Arg Gly Asp Pro Gly Leu Arg Gly Ser
 290 295 300
 Leu
 305

<210> 1831
 <211> 127
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (127)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1831
 Met Phe Val Leu Leu Tyr Val Thr Ser Phe Ala Ile Cys Ala Ser Gly
 1 5 10 15
 Gln Pro Arg Gly Asn Gln Leu Lys Gly Glu Asn Tyr Ser Pro Arg Tyr
 20 25 30
 Ile Cys Ser Ile Pro Gly Leu Pro Gly Pro Pro Gly Pro Pro Gly Ala
 35 40 45
 Asn Gly Ser Pro Gly Pro His Gly Arg Ile Gly Leu Pro Gly Arg Asp
 50 55 60
 Gly Arg Asp Gly Arg Lys Gly Glu Lys Gly Glu Lys Gly Thr Ala Gly
 65 70 75 80
 Leu Arg Gly Lys Thr Gly Pro Leu Gly Leu Ala Gly Glu Lys Gly Asp
 85 90 95
 Gln Gly Glu Thr Gly Lys Lys Gly Pro Ile Gly Pro Glu Gly Glu Lys
 100 105 110
 Gly Glu Val Gly Pro Ile Gly Pro Pro Gly Pro Lys Gly Asp Xaa
 115 120 125

<210> 1832
 <211> 190
 <212> PRT
 <213> Homo sapiens

<400> 1832
 Met Ser Ser Gly Thr Glu Leu Leu Trp Pro Gly Ala Ala Leu Leu Val
 1 5 10 15
 Leu Leu Gly Val Ala Ala Ser Leu Cys Val Arg Cys Ser Arg Pro Gly
 20 25 30
 Ala Lys Arg Ser Glu Lys Ile Tyr Gln Gln Arg Ser Leu Arg Glu Asp
 35 40 45
 Gln Gln Ser Phe Thr Gly Ser Arg Thr Tyr Ser Leu Val Gly Gln Ala
 50 55 6
 Trp Pro Gly Pro Leu Ala Asp Met Ala Pro Thr Arg Lys Asp Lys Leu
 65 70 75 80
 Leu Gln Phe Tyr Pro Ser Leu Glu Asp Pro Ala Ser Ser Arg Tyr Gln
 85 90 95
 Asn Phe Ser Lys Gly Ser Arg His Gly Ser Glu Glu Ala Tyr Ile Asp
 100 105 110
 Pro Ile Ala Met Glu Tyr Tyr Asn Trp Gly Arg Phe Ser Lys Pro Pro
 115 120 125
 Glu Asp Asp Asp Ala Asn Ser Tyr Glu Asn Val Leu Ile Cys Lys Gln
 130 135 140
 Lys Thr Thr Glu Thr Gly Ala Gln Gln Glu Gly Ile Gly Gly Leu Cys
 145 150 155 160
 Arg Gly Asp Leu Ser Leu Ser Leu Ala Leu Lys Thr Gly Pro Thr Ser
 165 170 175
 Gly Leu Cys Pro Ser Ala Ser Pro Glu Glu Asp Glu Gly Ile
 180 185 190

<210> 1833
 <211> 142
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (92)
 <223> Xaa equals any of the naturally occurring amino acids
 <220>
 <221> SITE

<222> (136)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (138)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 1833
 Met Cys Ala Phe Pro Trp Leu Leu Leu Leu Leu Leu Gln Glu Gly
 1 5 10 15

 Ser Gln Arg Arg Leu Trp Arg Trp Cys Gly SerGlu Glu Val Val Ala
 20 25 30

 Val Leu Gln Glu Ser Ile Ser Leu Pro Leu Glu Ile Pro Pro Asp Glu
 35 40 45

 Glu Val Glu Asn Ile Ile Trp Ser Ser His Lys Ser Leu AlaThr Val
 50 55 60

 Val Pro Gly Lys Glu Gly His Pro Ala Thr Ile Met Val Thr Asn Pro
 65 70 75 80

 His Tyr Gln Gly Gln Val Ser Phe Leu Asp Pro Xaa Tyr Ser Leu His
 85 90 95

 Ile Ser Asn Leu Ser Trp Glu Asp Ser Gly Leu Tyr Gln Ala Gln Val
 100 105 110

 Asn Leu Arg Thr Ser Gln Ile Ser Thr Met Gln Gln Tyr Asn Leu Cys
 115 120 125

 Val Tyr Arg Trp Leu Ser Glu Xaa Pro Xaa His Cys Glu Leu
 130 135 140

 <210> 1834
 <211> 122
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (92)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (100)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (109)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (116)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 1834
 Met Leu Ala Leu Thr Leu Ala Lys Ala Asp Ser Pro Arg Thr Ala Leu
 1 5 10 15
 Leu Cys Ser Ala Trp Leu Leu Thr Ala Ser Phe Ser Ala Gln Gln His
 20 25 30
 Lys Gly Ser Leu Gln Val His Gln Thr Leu Ser Val Glu Met Asp Gln
 35 40 45
 Val Leu Lys Ala Leu Ser Phe Pro Lys Lys Lys Ala Ala Leu Leu Ser
 50 55 60
 Thr Ala Ile Leu Cys Phe Leu Arg Thr Ala Leu Arg Gln Ser Phe Ser
 65 70 75 80
 Ser Ala Trp Asn Pro Gly Ala Leu Lys Gly Pro Xaa Thr Ala Ala Thr
 85 90 95
 Lys Asp Thr Xaa Leu Thr Ser Leu Arg Met Ser Lys Xaa Gly Pro Gly
 100 105 110
 His Trp Ala Xaa Lys Thr Ser Trp Cys Lys
 115 120

<210> 1835
 <211> 216
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (18)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1835
 Cys Phe Pro Trp Gly Xaa Ala Leu Arg Gln Lys Leu Phe Pro Ser Ala
 1 5 10 15
 Leu Xaa Ala Leu Val Pro Ser Gly Ala Gln Pro Leu Pro Ala Thr Lys
 20 25 30
 Asp Thr Val Leu Ala Pro Leu Arg Met Ser Gln Val Arg Ser Leu Val
 35 40 45

Ile Gly Leu Gln Asn Leu Leu Val Gln Lys Asp Pro Leu Leu Ser Gln
 50 55 60
 Ala Cys Val Gly Cys Leu Glu Ala Leu Leu Asp Tyr Leu Asp Ala Arg
 65 70 75 80
 Ser Pro Asp Ile Ala Leu His Val Ala Ser Gln Pro Trp Asn Arg Phe
 85 90 95
 Leu Leu Phe Thr Leu Leu Asp Ala Gly Glu Asn Ser Phe Leu Arg Pro
 100 105 110
 Glu Ile Leu Arg Leu Met Thr Leu Phe Met Arg Tyr Arg Ser Ser Ser
 115 120 125
 Val Leu Ser His Glu Glu Val Gly Asp Val Leu Gln Gly Val Ala Leu
 130 135 140
 Ala Asp Leu Ser Thr Leu Ser Asn Thr Thr Leu Gln Ala Leu His Gly
 145 150 155 160
 Phe Phe Gln Gln Leu Gln Ser Met Gly His Leu Ala Asp His Ser Met
 165 170 175
 Ala Gln Thr Leu Gln Ala Ser Leu Glu Gly Leu Pro Pro Ser Thr Ser
 180 185 190
 Ser Gly Gln Pro Pro Leu Gln Asp Met Leu Cys Leu Gly Gly Val Ala
 195 200 205
 Val Ser Leu Ser His Ile Arg Asn
 210 215

<210> 1836
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 1836
 Met Ala Leu Lys Asn Lys Phe Ser Cys Leu Trp Ile Leu Gly Leu Cys
 1 5 10 15
 Leu Val Ala Thr Thr Ser Ser Lys Ile Pro Ser Ile Thr Asp Pro His
 20 25 30
 Phe Ile Asp Asn Cys Ile Glu Ala His Asn Glu Trp Arg Gly Lys Val
 35 40 45
 Asn Pro Pro Ala Ala Asp Met Lys Tyr Met Ile Trp Asp Lys Gly Leu
 50 55 60
 Ala Lys Met Ala Lys Ala Trp Gly Lys Pro Val Gln Ile
 65 70 75

<210> 1837
 <211> 257
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (27)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1837
 Met Thr Ala Ala Val Phe Phe Gly Cys Ala Phe Ile Ala Phe Gly Pro
 1 5 10 15
 Ala Leu Ala Leu Tyr Val Phe Thr Ile Ala Xaa Glu Pro Leu Arg Ile
 20 25 30
 Ile Phe Leu Ile Ala Gly Ala Phe Phe Trp Leu Val Ser Leu Leu Ile
 35 40 45
 Ser Ser Leu Val Trp Phe Met Ala Arg Val Ile Ile Asp Asn Lys Asp
 50 55 60
 Gly Pro Thr Gln Lys Tyr Leu Leu Ile Phe Gly Ala Phe Val Ser Val
 65 70 75 80
 Tyr Ile Gln Glu Met Phe Arg Phe Ala Tyr Tyr Lys Leu Leu Lys Lys
 85 90 95
 Ala Ser Glu Gly Leu Lys Ser Ile Asn Pro Gly Glu Thr Ala Pro Ser
 100 105 110
 Met Arg Leu Leu Ala Tyr Val Ser Gly Leu Gly Phe Gly Ile Met Ser
 115 120 125
 Gly Val Phe Ser Phe Val Asn Thr Leu Ser Asp Ser Leu Gly Pro Gly
 130 135 140
 Thr Val Gly Ile His Gly Asp Ser Pro Gln Phe Phe Leu Tyr Ser Ala
 145 150 155 160
 Phe Met Thr Leu Val Ile Ile Leu Leu His Val Phe Trp Gly Ile Val
 165 170 175
 Phe Phe Asp Gly Cys Glu Lys Lys Lys Trp Gly Ile Leu Leu Ile Val
 180 185 190
 Leu Leu Thr His Leu Leu Val Ser Ala Gln Thr Phe Ile Ser Ser Tyr
 195 200 205
 Tyr Gly Ile Asn Leu Ala Ser Ala Phe Ile Ile Leu Val Leu Met Gly
 210 215 220
 Thr Trp Ala Phe Leu Ala Ala Gly Gly Ser Cys Arg Ser Leu Lys Leu
 225 230 235 240

Cys Leu Leu Cys Gln Asp Lys Asn Phe Leu Leu Tyr Asn Gln Arg Ser
245 250 255

Arg

<210> 1838
<211> 94
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring amino acids

<400> 1838
Arg Xaa Pro Ile Phe Ile Gly Glu Asn Phe Tyr Pro Pro Val Arg Gly
1 5 10 15

Arg Val Gly Met Ser Ala Cys Gln Gly Gly Gly Gly Gly Gly Gly
20 25 30

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
35 40 45

Gly Gly Gly Gly Val Asp Lys Leu Pro CysLeu Thr Met Cys Trp Cys
50 55 60

Gly Asn Gly Ala Gln Pro Ala Arg Leu Lys Val Asp Gly Ile Pro Thr
65 70 75 80

Gly Gln Arg Lys Ser Tyr Ala Asp Thr Pro Ala TrpPro Gly
85 90

<210> 1839
<211> 82
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring amino acids

<400> 1839
Pro Gly Asn Glu Val Thr Asp Gly Gln Pro Arg Gln Pro Leu Arg Arg

1	5	10	15
Leu Arg Leu Pro Cys Gly Ala Ser Leu Xaa Arg Xaa Pro Ala Ser Pro	20	25	30
Ser Asp Ala Ile Gln Arg Ala Leu Pro Gly Arg Lys Leu Pro Arg Trp	35	40	45
Asn Ala Ser Pro Glu Gln Arg Val Ala Val Pro Cys Gly Gly Leu Thr	50	55	60
Gln Trp Leu Asn Thr Gly Lys Glu Leu Ala Leu Gly Val Arg Thr Ser	65	70	75
			80
Glu Thr			

<210> 1840

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1840

Asn Leu Xaa Cys Cys Glu Pro Leu Lys Gly Thr Glu Ile Val His Leu	1	5	10	15
Xaa Ser Ser Asp Phe Lys Ala Val Ala Cys Arg Cys Ser Gln Leu Asn	20	25	30	
Lys Ala Leu Pro Ser Thr Thr Leu Arg Gly Phe Val Cys Gly Ser Ser	35	40	45	
Cys Tyr Ile Ser Trp Phe Pro Asn Gln Glu Thr Arg	50	55	60	

<210> 1841

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1841

Met	Ser	Pro	Arg	Gly	Thr	Gly	Cys	Ser	Ala	Gly	Leu	Leu	Met	Thr	Val
1				5					10					15	
Gly	Trp	Leu	Leu	Leu	Ala	Gly	Leu	Gln	Ser	Ala	Arg	Gly	Thr	Asn	Val
		20					25						30		
Thr	Ala	Ala	Val	Gln	Asp	Ala	Gly	Leu	Ala	His	Glu	Gly	Glu	Gly	Glu
	35						40					45			
Glu	Glu	Thr	Glu	Asn	Asn	Asp	Ser	Glu	Thr	Ala	Glu	Asn	Tyr	Ala	Pro
	50					55					60				
Ser	Glu	Thr	Glu	Asp	Val	Ser	Asn	Arg	Asn	Xaa	Val	Lys	Glu	Val	Glu
65					70					75					80
Phe	Gly	Met	Cys	Thr	Val	Thr	Cys	Gly	Ile	Gly	Val	Arg	Glu	Val	Ile
				85					90					95	
Leu	Thr	Asn	Gly	Cys	Pro	Gly	Gly	Glu	Ser	Lys	Cys	Val	Val	Arg	Val
		100						105					110		
Glu	Glu	Cys	Pro	Trp	Thr	Asn	Arg	Leu	Trp	Leu	Gly				
	115						120								

<210> 1842

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1842

Met	Pro	Arg	Cys	Arg	Trp	Leu	Ser	Leu	Ile	Leu	Leu	Thr	Ile	Pro	Leu
1				5					10					15	
Ala	Leu	Val	Ala	Arg	Lys	Asp	Pro	Lys	Lys	Asn	Glu	Thr	Gly	Val	Leu
		20						25					30		
Arg	Lys	Leu	Lys	Pro	Val	Asn	Ala	Phe	Xaa	Cys	Gln	Arg	Gly	Ser	Ser

35 40 45
 Val Xaa Gly Phe Ala Met Gln Glu Tyr Asn Lys Glu Ser Glu Asp Lys
 50 55 60
 Tyr Val Phe Leu Val Val Lys Thr Leu Gln Ala Gln Leu Gln Val Thr
 65 70 75 80
 Asn Leu Leu Glu Tyr Leu Ile Asp Val Glu Ile Ala Arg Ser Asp Cys
 85 90 95
 Arg Lys Pro Leu Ser Thr Asn Glu Ile Ala Pro Phe Lys Xaa Thr Pro
 100 105 110
 Ser

<210> 1843
 <211> 159
 <212> PRT
 <213> Homo sapiens

<400> 1843
 Met Trp Leu Phe Ile Leu Leu Ser Leu Ala Leu Ile Ser Asp Ala Met
 1 5 10 15
 Val Met Asp Glu Lys Val Lys Arg Ser Phe Val Leu Asp Thr Ala Ser
 20 25 30
 Ala Ile Cys Asn Tyr Asn Ala His Tyr Lys Asn His Pro Lys Tyr Trp
 35 40 45
 Cys Arg Gly Tyr Phe Arg Asp Tyr Cys Asn Ile Ile Ala Phe Ser Pro
 50 55 60
 Asn Ser Thr Asn His Val Ala Leu Lys Asp Thr Gly Asn Gln Leu Ile
 65 70 75 80
 Val Thr Met Ser Cys Leu Asn Lys Glu Asp Thr Gly Trp Tyr Trp Cys
 85 90 95
 Gly Ile Gln Arg Asp Phe Ala Arg Asp Asp Met Asp Phe Thr Glu Leu
 100 105 110
 Ile Val Thr Asp Asp Lys Gly Thr Trp Pro Met Thr Leu Val Trp Glu
 115 120 125
 Arg Leu Ser Gly Thr Lys Pro Glu Ala Ala Arg Leu Pro Lys Leu Ser
 130 135 140
 Ala Arg Leu Thr Ala Pro Gly Arg Pro Phe Ser Ser Phe Ala Tyr
 145 150 155

<210> 1844
 <211> 71
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (40)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (55)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1844
 Met Trp Leu Phe Ile Leu Leu Ser Leu Ala Leu Ile Ser Asp Ala Met
 1 5 10 15
 Val Met Asp Glu Lys Val Lys Arg Ser Leu Cys Trp Thr Arg Leu Leu
 20 25 30
 Pro Ser Ala Thr Thr Met Pro Xaa Thr Arg Ile Thr Pro Asn Thr Gly
 35 40 45
 Ala Glu Xaa Ile Ser Val Xaa Thr Ala Thr Ser Ser Pro Ser Pro Leu
 50 55 60
 Thr Ala Pro Ile Met Trp Pro
 65 70

<210> 1845
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 1845
 Met Ala Phe Gly Gln Glu Val Thr His Leu Thr Lys Thr Ser Trp Leu
 1 5 10 15
 Ala Pro Leu Arg Phe Ile Lys Gly Leu Leu Gly Pro Trp Gly Trp Ile
 20 25 30
 Leu Leu Ile Leu Asp Leu Glu
 35

<210> 1846
 <211> 38

<212> PRT

<213> Homo sapiens

<400> 1846

Met Val Ser Lys His Ser Leu Asn Leu His Phe Phe Tyr Trp Lys Gly
1 5 10 15

Gly Cys Ala Cys Phe Thr Ser Glu Pro Arg Val Phe Val Val Val Glu
20 25 30

Leu Ser Leu Leu Asp Cys
35

<210> 1847

<211> 64

<212> PRT

<213> Homo sapiens

<400> 1847

Arg Thr Leu Arg Met Ser Pro Ser Ala Phe Cys Tyr Ser Leu Thr Leu
1 5 10 15

Leu Ala Cys Trp Arg Ala Ala Trp Ile Pro Thr Cys Val Pro Arg Ala
20 25 30

Ala Gly Glu Met Asp Ser Pro Gly Leu Ala Asp Gly His Trp Cys Ser
35 40 45

Gly Ala Ala Arg Arg Ser Pro His Tyr Val Ala Arg Ser Leu Val Leu
50 55 60

<210> 1848

<211> 5

<212> PRT

<213> Homo sapiens

<400> 1848

Ala Gly Thr Trp Ser
1 5

<210> 1849

<211> 170

<212> PRT

<213> Homo sapiens

<400> 1849

Met Ile Leu Thr Met Leu Leu Met Leu Lys Leu Cys Thr Glu Val Arg
1 5 10 15

Val Ala Asn Glu Leu Asn Ala Arg Arg Arg Ser Phe Thr Asp Phe Asp
 20 25 30
 Pro His His Phe Trp Gln Trp Ser Ser Phe Ser Asp Tyr Val Gln Cys
 35 40 45
 Val Leu Ala Phe Thr Gly Val Ala Gly Tyr Ile Thr Tyr Leu Ser Ile
 50 55 60
 Asp Ser Ala Leu Phe Val Glu Thr Leu Gly Phe Leu Ala Val Leu Thr
 65 70 75 80
 Glu Ala Met Leu Gly Val Pro Gln Leu Tyr Arg Asn His Arg His Gln
 85 90 95
 Ser Thr Glu Gly Met Ser Ile Lys Met Val Leu Met Trp Thr Ser Gly
 100 105 110
 Asp Ala Phe Lys Thr Ala Tyr Phe Leu Leu Lys Gly Ala Pro Leu Gln
 115 120 125
 Phe Ser Val Cys Gly Leu Leu Gln Val Leu Val Asp Leu Ala Ile Leu
 130 135 140
 Gly Gln Ala Tyr Ala Phe Ala Arg His Pro Gln Lys Pro Ala Pro His
 145 150 155 160
 Ala Val His Pro Thr Gly Thr Lys Ala Leu
 165 170

<210> 1850
 <211> 170
 <212> PRT
 <213> Homo sapiens

<400> 1850
 Met Ile Leu Thr Met Leu Leu Met Leu Lys Leu Cys Thr Glu Val Arg
 1 5 10 15
 Val Ala Asn Glu Leu Asn Ala Arg Arg Arg Ser Phe Thr Asp Phe Asp
 20 25 30
 Pro His His Phe Trp Gln Trp Ser Ser Phe Ser Asp Tyr Val Gln Cys
 35 40 45
 Val Leu Ala Phe Thr Gly Val Ala Gly Tyr Ile Thr Tyr Leu Ser Ile
 50 55 60
 Asp Ser Ala Leu Phe Val Glu Thr Leu Gly Phe Leu Ala Val Leu Thr
 65 70 75 80
 Glu Ala Met Leu Gly Val Pro Gln Leu Tyr Arg Asn His Arg His Gln
 85 90 95

Ser Thr Glu Gly Met Ser Ile Lys Met Val Leu Met Trp Thr Ser Gly
100 105 110
Asp Ala Phe Lys Thr Ala Tyr Phe Leu Leu Lys Gly Ala Pro Leu Gln
115 120 125
Phe Ser Val Cys Gly Leu Leu Gln Val Leu Val Asp Leu Ala Ile Leu
130 135 140
Gly Gln Ala Tyr Ala Phe Ala Arg His Pro Gln Lys Pro Ala Pro His
145 150 155 160
Ala Val His Pro Thr Gly Thr Lys Ala Leu
165 170

<210> 1851
<211> 60
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring amino acids

<400> 1851
Met Xaa Leu Ala Phe Ser Val Ile Ile Leu Ala Gly Ala Gly Ser Ser
1 5 10 15
Arg Ser Trp Asn Ser Val Leu Val Glu Lys Glu Val Val Glu Gly Gly
20 25 30
Leu Gly Pro Trp Gly Asn Cys Ser Ala Glu Pro Leu Pro His Leu Leu
35 40 45
Leu Pro Arg Thr Asn Leu Lys Ala Lys Val Pro Gly
50 55 60

<210> 1852
<211> 61
<212> PRT
<213> Homo sapiens

<400> 1852
Met Asn Ala Ser Leu Ile Ser Trp Val Leu Val Leu His Arg Ile Cys
1 5 10 15
Leu Gly Leu Ser Asp Ile Pro Lys Glu Asn Cys Ile Ile Thr Ile Ser
20 25 30
Gly Met Gln Leu Ser His His Gly Gln Ser Leu Gly Lys Trp Ala Glu
35 40 45

Lys Leu His Val Phe Tyr Ser Leu Phe Ser Phe Leu Leu
50 55 60

<210> 1853

<211> 322

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1853

Arg Ala Pro Arg Arg Thr Gly Pro Ala Ser Phe Ser Ser Arg Pro Ala
1 5 10 15

Gly Thr Cys Ser Asp Asn Arg Val Thr Ser Phe Xaa Asp Leu Ile His
20 25 30

Asp Gln Asp Glu Asp Glu Glu Glu Glu Gly Gln Arg Phe Tyr Ala
35 40 45

Gly Gly Ser Glu Arg Ser Gly Gln Gln Ile Val Gly Pro Pro Arg Lys
50 55 60

Lys Ser Pro Asn Glu Leu Val Asp Asp Leu Phe Lys Gly Ala Lys Glu
65 70 75 80

His Gly Ala Val Ala Val Glu Arg Val Thr Lys Ser Pro Gly Glu Thr
85 90 95

Ser Lys Pro Arg Pro Phe Ala Gly Gly Gly Tyr Arg Leu Gly Ala Ala
100 105 110

Pro Glu Glu Glu Ser Ala Tyr Val Ala Gly Glu Lys Arg Gln His Ser
115 120 125

Ser Gln Asp Val His Val Val Leu Lys Leu Trp Lys Ser Gly Phe Ser
130 135 140

Leu Asp Asn Gly Glu Leu Arg Ser Tyr Gln Asp Pro Ser Asn Ala Gln
145 150 155 160

Phe Leu Glu Ser Ile Arg Arg Gly Glu Val Pro Ala Glu Leu Arg Arg
165 170 175

Leu Ala His Gly Gly Gln Val Asn Leu Asp Met Glu Asp His Arg Asp
180 185 190

Glu Asp Phe Val Lys Pro Lys Gly Ala Phe Lys Ala Phe Thr Gly Glu
195 200 205

Gly Gln Lys Leu Gly Ser Thr Ala Pro Gln Val Leu Ser Thr Ser Ser
210 215 220

Pro Ala Gln Gln Ala Glu Asn Glu Ala Lys Ala Ser Ser Ser Ile Leu
 225 230 235 240
 Ile Asp Glu Ser Glu Pro Thr Thr Asn Ile Gln Ile Arg Leu Ala Asp
 245 250 255
 Gly Gly Arg Leu Val Gln Lys Phe Asn His Ser His Arg Ile Ser Asp
 260 265 270
 Ile Arg Leu Phe Ile Val Asp Ala Arg Pro Ala Met Ala Ala Thr Ser
 275 280 285
 Phe Ile Leu Met Thr Thr Phe Pro Asn Lys Glu Leu Ala Asp Glu Ser
 290 295 300
 Gln Thr Leu Lys Glu Ala Asn Leu Leu Asn Ala Val Ile Val Gln Arg
 305 310 315 320
 Leu Thr

<210> 1854
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 1854
 Ser Cys Ile Ser Trp Val Phe Val Met Ile Asn Gly Leu
 1 5 10

<210> 1855
 <211> 240
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (67)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1855
 Gly Glu Gly Asp Asp Lys Glu Glu Ser Val Glu Lys Leu Asp Cys His
 1 5 10 15
 Tyr Ser Gly His His Pro Gln Pro Ala Ser Phe Cys Thr Phe Gly Ser
 20 25 30
 Arg Gln Ile Gly Arg Gly Tyr Tyr Val Phe Asp Ser Arg Trp Asn Arg
 35 40 45
 Leu Arg Cys Ala Leu Asn Leu Met Val Glu Lys His Leu Asn Ala Gln
 50 55 60

Leu Trp Xaa Lys Ile Pro Pro Val Pro Ser Thr Thr Ser Pro Ile Ser
 65 70 75 80
 Thr Arg Ile Pro His Arg Thr Asn Ser Val Pro Thr Ser Gln Cys Gly
 85 90 95
 Val Ser Tyr Leu Ala Ala Ala Thr Val Ser Thr Ser Pro Val Leu Leu
 100 105 110
 Ser Ser Thr Cys Ile Ser Pro Asn Ser Lys Ser Val Pro Ala His Gly
 115 120 125
 Thr Thr Leu Asn Ala Gln Pro Ala Ala Ser Gly Ala Met Asp Pro Val
 130 135 140
 Cys Ser Met Gln Ser Arg Gln Val Ser Ser Ser Ser Ser Ser Pro Ser
 145 150 155 160
 Thr Pro Ser Gly Leu Ser Ser Val Pro Ser Ser Pro Met Ser Arg Lys
 165 170 175
 Pro Gln Lys Leu Lys Ser Ser Lys Ser Leu Arg Pro Lys Glu Ser Ser
 180 185 190
 Gly Asn Ser Thr Asn Cys Gln Asn Ala Ser Ser Ser Thr Ser Gly Gly
 195 200 205
 Ser Gly Lys Lys Arg Lys Asn Ser Ser Pro Leu Leu Val His Ser Ser
 210 215 220
 Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser His Ser Met Gly Val Phe
 225 230 235 240

<210> 1856

<211> 362

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (307)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1856

Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser Pro
 1 5 10 15

Val His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala Ser Lys
 20 25 30

Thr Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val Gln Asp Arg

35 40 45
 Gly Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val Val Leu Glu His
 50 55 60
 Arg Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg His Phe Ala Gly Asp
 65 70 75 80
 Val Leu Gly Tyr Val Thr Pro Trp Asn Ser His Gly Tyr Asp Val Thr
 85 90 95
 Lys Val Phe Gly Ser Lys Phe Thr Gln Ile Ser Pro Val Trp Leu Gln
 100 105 110
 Leu Lys Arg Arg Gly Arg Glu Met Phe Glu Val Thr Gly Leu His Asp
 115 120 125
 Val Asp Gln Gly Trp Met Arg Ala Val Arg Lys His Ala Lys Gly Leu
 130 135 140
 His Ile Val Pro Arg Leu Leu Phe Glu Asp Trp Thr Tyr Asp Asp Phe
 145 150 155 160
 Arg Asn Val Leu Asp Ser Glu Asp Glu Ile Glu Glu Leu Ser Lys Thr
 165 170 175
 Val Val Gln Val Ala Lys Asn Gln His Phe Asp Gly Phe Val Val Glu
 180 185 190
 Val Trp Asn Gln Leu Leu Ser Gln Lys Arg Val Thr Asp Gln Leu Gly
 195 200 205
 Met Phe Thr His Lys Glu Phe Glu Gln Leu Ala Pro Val Leu Asp Gly
 210 215 220
 Phe Ser Leu Met Thr Tyr Asp Tyr Ser Thr Ala His Gln Pro Gly Pro
 225 230 235 240
 Asn Ala Pro Leu Ser Trp Val Arg Ala Cys Val Gln Val Leu Asp Pro
 245 250 255
 Lys Ser Lys Trp Arg Ser Lys Ile Leu Leu Gly Leu Asn Phe Tyr Gly
 260 265 270
 Met Asp Tyr Ala Thr Ser Lys Asp Ala Arg Glu Pro Val Val Gly Ala
 275 280 285
 Arg Tyr Ile Gln Thr Leu Lys Asp His ArgPro Arg Met Val Trp Asp
 290 295 300
 Ser Gln Xaa Ser Glu His Phe Phe Glu Tyr Lys Lys Ser Arg Ser Gly
 305 310 315 320
 Arg His Val Val Phe Tyr Pro Thr Leu Lys Ser LeuGln Val Arg Leu
 325 330 335
 Glu Leu Ala Arg Glu Leu Gly Val Gly Val Ser Ile Trp Glu Leu Gly

340	345	350
Gln Gly Leu Asp Tyr Phe Tyr Asp Leu Leu		
355	360	

<210> 1857
 <211> 415
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (338)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 1857
 Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser Po
 1 5 10 15
 Val His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala Ser Lys
 20 25 30
 Thr Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val Gln Asp Arg
 35 40 45
 Gly Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val Val Leu Glu His
 50 55 60
 Arg Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg His Phe Ala Gly Asp
 65 70 75 80
 Val Leu Gly Tyr Val Thr Pro Trp Asn Ser His Gly Tyr Asp Val Thr
 85 90 95
 Lys Val Phe Gly Ser Lys Phe Thr Gln Ile Ser Pro Val Trp Leu Gln
 100 105 110
 Leu Lys Arg Arg Gly Arg Glu Met Phe Glu Val Thr Gly Leu His Asp
 115 120 125
 Val Asp Gln Gly Trp Met Arg Ala Val Arg Lys His Ala Lys Gly Leu
 130 135 140
 His Ile Val Pro Arg Leu Leu Phe Glu Asp Trp Thr Tyr Asp Asp Phe
 145 150 155 160
 Arg Asn Val Leu Asp Ser Glu Asp Glu Ile Glu Glu Leu Ser Lys Thr
 165 170 175
 Val Val Gln Val Ala Lys Asn Gln His Phe Asp Gly Phe Val Val Glu
 180 185 190
 Val Trp Asn Gln Leu Leu Ser Gln Lys Arg Val Gly Leu Ile His Met
 195 200 205

Leu Thr His Leu Ala Glu Ala Leu His Gln Ala Arg Leu Leu Ala Leu
 210 215 220
 Leu Val Ile Pro Pro Ala Ile Thr Pro Gly Thr Asp Gln Leu Gly Met
 225 230 235 240
 Phe Thr His Lys Glu Phe Glu Gln Leu Ala Pro Val Leu Asp Gly Phe
 245 250 255
 Ser Leu Met Thr Tyr Asp Tyr Ser Thr Ala His Gln Pro Gly Pro Asn
 260 265 270
 Ala Pro Leu Ser Trp Val Arg Ala Cys Val Gln Val Leu Asp Pro Lys
 275 280 285
 Ser Lys Trp Arg Ser Lys Ile Leu Leu Gly Leu Asn Phe Tyr Gly Met
 290 295 300
 Asp Tyr Ala Thr Ser Lys Asp Ala Arg Glu Pro Val Val Gly Ala Arg
 305 310 315 320
 Tyr Ile Gln Thr Leu Lys Asp His Arg Pro Arg Met Val Trp Asp Ser
 325 330 335
 Gln Xaa Ser Glu His Phe Phe Glu Tyr Lys Lys Ser Arg Ser Gly Arg
 340 345 350
 His Val Val Phe Tyr Pro Thr Leu Lys Ser Leu Gln Val Arg Leu Glu
 355 360 365
 Leu Ala Arg Glu Leu Gly Val Gly Val Ser Ile Trp Glu Leu Ala Arg
 370 375 380
 Ala Trp Thr Thr Ser Thr Thr Cys Ser Arg Trp Ala Leu Arg Pro Pro
 385 390 395 400
 Arg Trp Thr Cys Ser Phe Leu Ser His Gly Val Ser Glu Gln Val
 405 410 415

<210> 1858

<211> 461

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (234)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (236)

<223> Xaa equals any of the naturally occurring amino acids .

<400> 1858

Met Ala Leu Met Leu Ser Leu Val Leu Ser Leu Leu Lys Leu Gly Ser
1 5 10 15
Gly Gln Trp Gln Val Phe Gly Pro Asp Lys Pro Val Gln Ala Leu Val
20 25 30
Gly Glu Asp Ala Ala Phe Ser Cys Phe Leu Ser Pro Lys Thr Asn Ala
35 40 45
Glu Ala Met Glu Val Arg Phe Phe Arg Gly Gln Phe Ser Ser Val Val
50 55 60
His Leu Tyr Arg Asp Gly Lys Asp Gln Pro Phe Met Gln Met Pro Gln
65 70 75 80
Tyr Gln Gly Arg Thr Lys Leu Val Lys Asp Ser Ile Ala Glu Gly Arg
85 90 95
Ile Ser Leu Arg Leu Glu Asn Ile Thr Val Leu Asp Ala Gly Leu Tyr
100 105 110
Gly Cys Arg Ile Ser Ser Gln Ser Tyr Tyr Gln Lys Ala Ile Trp Glu
115 120 125
Leu Gln Val Ser Ala Leu Gly Ser Val Pro Leu Ile Ser Ile Thr Gly
130 135 140
Tyr Val Asp Arg Asp Ile Gln Leu Leu Cys Gln Ser Ser Gly Trp Phe
145 150 155 160
Pro Arg Pro Thr Ala Lys Trp Lys Gly Pro Gln Gly Gln Asp Leu Ser
165 170 175
Thr Asp Ser Arg Thr Asn Arg Asp Met His Gly Leu Phe Asp Val Glu
180 185 190
Ile Ser Leu Thr Val Gln Glu Asn Ala Gly Ser Ile Ser Cys Ser Met
195 200 205
Arg His Ala His Leu Ser Arg Glu Val Glu Ser Arg Val Gln Ile Gly
210 215 220
Asp Thr Phe Phe Glu Pro Ile Ser Trp Xaa Leu Xaa Thr Lys Val Leu
225 230 235 240
Gly Ile Leu Cys Cys Gly Leu Phe Phe Gly Ile Val Gly Leu Lys Ile
245 250 255
Phe Phe Ser Lys Phe Gln Trp Lys Ile Gln Ala Glu Leu Asp Trp Arg
260 265 270
Arg Lys His Gly Gln Ala Glu Leu Arg Asp Ala Arg Lys His Ala Val
275 280 285
Glu Val Thr Leu Asp Pro Glu Thr Ala His Pro Lys Leu Cys Val Ser
290 295 300

Asp Leu Lys Thr Val Thr His Arg Lys Ala Pro Gln Glu Val Pro His
 305 310 315 320
 Ser Glu Lys Arg Phe Thr Arg Lys Ser Val Val Ala Ser Gln Ser Phe
 325 330 335
 Gln Ala Gly Lys His Tyr Trp Glu Val Asp Gly Gly His Asn Lys Arg
 340 345 350
 Trp Arg Val Gly Val Cys Arg Asp Asp Val Asp Arg Arg Lys Glu Tyr
 355 360 365
 Val Thr Leu Ser Pro Asp His Gly Tyr Trp Val Leu Arg Leu Asn Gly
 370 375 380
 Glu His Leu Tyr Phe Thr Leu Asn Pro Arg Phe Ile Ser Val Phe Pro
 385 390 395 400
 Arg Thr Pro Pro Thr Lys Ile Gly Val Phe Leu Asp Tyr Glu Cys Gly
 405 410 415
 Thr Ile Ser Phe Phe Asn Ile Asn Asp Gln Ser Leu Ile Tyr Thr Leu
 420 425 430
 Thr Cys Arg Phe Glu Gly Leu Leu Arg Pro Tyr Ile Glu Tyr Pro Ser
 435 440 445
 Tyr Asn Glu Gln Asn Gly Thr Pro Arg Asp Lys Gln Gln
 450 455 460

<210> 1859
 <211> 111
 <212> PRT
 <213> Homo sapiens

<400> 1859
 Met Gln Phe Ser Leu Cys Leu Thr Ala Val Phe Leu Leu Gln Leu Ala
 1 5 10 15
 Ala Gly Ile Leu Gly Phe Val Phe Ser Asp Lys Ala Arg Gly Lys Val
 20 25 30
 Ser Glu Ile Ile Asn Asn Ala Ile Val His Tyr Arg Asp Asp Leu Asp
 35 40 45
 Leu Gln Asn Leu Ile Asp Phe Gly Gln Lys Lys Val Trp Val Ser Gln
 50 55 60
 Trp Ser Gly Gly Leu Trp Val Lys Val Asn Val Ile Pro Arg Asp Ala
 65 70 75 80
 Ser Pro Ser Met Pro Val Gly Leu Phe Ile Thr Cys Gln Val Met Ala
 85 90 95
 Ser Gly Lys Gly Phe Gly Lys Lys Ser Thr Arg Ser Arg Val Leu

100

105

110

<210> 1860
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 1860
 Met Leu Cys His Pro His Val His His His Leu Val Cys Leu Leu Ala
 1 5 10 15
 Thr Leu Thr Phe Ser Leu Asn Ala Ser Cys Ala Gu Gln Thr Phe His
 20 25 30
 Ser Gln Gln Ser Asn Gly Glu Phe Met Ala Thr Leu Pro Ser Ile Ser
 35 40 45
 Lys Gln Phe Gly Val Ile Val Trp Lys Pro Gln Arg Lys Asp Wl Ile
 50 55 60
 Arg Leu Pro Val Ala Leu Ser Phe Ser Met Gly Leu Gly Leu Leu Ser
 65 70 75 80
 Pro Ala Leu Gly Arg Phe Leu Ala Ser Glu Leu
 85 90

<210> 1861
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 1861
 Met Ser Pro His Gln Pro Met Gln Val Ser Ser Ser Lys Thr Ile Leu
 1 5 10 15
 Trp Leu Val Leu Ser Cys Leu Cys Ho Ser Ser Pro His Pro Val Ile
 20 25 30
 Ser Gly Leu Pro Gln Trp Tyr Ile Gly Val Leu Ala Gly Ile Val Pro
 35 40 45
 Val Ala Pro Ile Arg Pro Gly Asp Ser Gly Leu Ap Leu Gln Arg Glu
 50 55 60
 Gly Pro Gln Pro Ile Leu Ser Gln Gly Leu Asn Arg Arg Thr
 65 70 75

<210> 1862
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1862
 Met Cys Trp Ile Cys Val Trp Leu Phe Phe Ser Pro Thr Lys Thr Ser
 1 5 10 15
 Cys Phe Pro Trp Leu Ile Arg Pro Gly Pro Arg Ser Phe Thr Asp Ser
 20 25 30
 His Gly Thr Pro Pro Trp Gln Cys Leu Glu Pro Ser Ser Phe Thr Tyr
 35 40 45
 Pro Gly Lys Gln Val Trp
 50

<210> 1863
 <211> 145
 <212> PRT
 <213> Homo sapiens

<400> 1863
 Met Ser Gln Ala Trp Val Pro Gly Leu AlaPro Thr Leu Leu Phe Ser
 1 5 10 15
 Leu Leu Ala Gly Pro Gln Lys Ile Ala Ala Lys Cys Gly Leu Ile Leu
 20 25 30
 Ala Cys Pro Lys Gly Phe Lys Cys Cys Gly AspSer Cys Cys Gln Glu
 35 40 45
 Asn Glu Leu Phe Pro Gly Pro Val Arg Ile Phe Val Ile Ile Phe Leu
 50 55 60
 Val Ile Leu Ser Val Phe Cys Ile Cys Gly Leu Ala Lys Cys Phe Cys
 65 70 75 80
 Arg Asn Cys Arg Glu Pro Glu Pro Asp Ser Pro Val Asp Cys Arg Gly
 85 90 95
 Pro Leu Glu Leu Pro Ser Ile Ile Pro Pro Glu Arg Val Ile LeuLys
 100 105 110
 Pro Ser Leu Gly Pro Thr Pro Thr Glu Pro Pro Pro Pro Tyr Ser Phe
 115 120 125
 Arg Pro Glu Glu Tyr Thr Gly Asp Gln Arg Gly Ile Asp Asn Pro Ala
 130 135 140
 Phe
 145

<210> 1864
 <211> 68
 <212> PRT

<213> Homo sapiens

<400> 1864

```
Met Lys Pro Thr Arg Ser Leu Trp Ile Ser Phe Leu Met Cys Cys Trp
 1              5              10              15
Ile Trp Phe Ala Asn Ile Leu Leu Arg Ile Phe Ala Ser Val Phe Phe
      20              25              30
Arg Asp Ile Gly Leu Lys Phe Ser Phe Phe Cys Cys Val Ser Ala Arg
      35              40              45
Leu Trp Tyr Gln Asp Asp Ala Gly Leu Ile Asn Glu Leu Gly Arg Ile
      50              55              60
Pro Ser Phe Tyr
      65
```

<210> 1865

<211> 142

<212> PRT

<213> Homo sapiens

<400> 1865

```
Met Arg Arg Leu Leu Leu Val Thr Ser Leu Val Val Val LeuLeu Trp
 1              5              10              15
Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val
      20              25              30
Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly AlaArg
      35              40              45
Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro
      50              55              60
Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Thr
      65              70              75              80
Lys Ala Trp Met Glu Thr Glu Asp Thr Leu Gly Arg Val Leu Ser Pro
      85              90              95
Glu Pro Asp His Asp Ser Leu Tyr His Pro Pro Pro Glu Glu Asp Gln
      100              105              110
Gly Glu Glu Arg Pro Arg Leu Trp Val Met Pro Asn His Gln Val Leu
      115              120              125
Leu Gly Pro Glu Glu Asp Gln Asp His Ile Tyr His Pro Gln
      130              135              140
```

<210> 1866

<211> 119

<212> PRT
 <213> Homo sapiens

<400> 1866
 Met Arg Arg Leu Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp
 1 5 10 15
 Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val
 20 25 30
 Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg
 35 40 45
 Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro
 50 55 60
 Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Thr
 65 70 75 80
 Lys Ala Trp Met Glu Thr Glu Asp Thr Leu Gly Arg Val Leu Ser Pro
 85 90 95
 Glu Pro Asp His Asp Ser Leu Tyr His Pro Pro Pro Glu Glu Asp Gln
 100 105 110
 Gly Glu Glu Arg Pro Arg Leu
 115

<210> 1867
 <211> 462
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (115)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1867
 Met Arg Leu Arg Val Arg Leu Leu Lys Arg Thr Trp Pro Leu Glu Val
 1 5 10 15
 Pro Glu Thr Glu Pro Thr Leu Gly His Leu Arg Ser His Leu Arg Gln
 20 25 30
 Ser Leu Leu Cys Thr Trp Gly Tyr Ser Ser Asn Thr Arg Phe Thr Ile
 35 40 45
 Thr Leu Asn Tyr Lys Asp Pro Leu Thr Gly Asp Glu Glu Thr Leu Ala
 50 55 60
 Ser Tyr Gly Ile Val Ser Gly Asp Leu Ile Cys Leu Ile Leu Gln Asp
 65 70 75 80
 Asp Ile Pro Ala Pro Asn Ile Pro Ser Ser Thr Asp Ser Glu His Ser

				85						90									95
Ser	Leu	Gln	Asn	Asn	Glu	Gln	Pro	Ser	Leu	Ala	Thr	Ser	Ser	Asn	Gln				
			100					105						110					
Thr	Ser	Xaa	Gln	Asp	Glu	Gln	Pro	Ser	Asp	Ser	Phe	Gln	Gly	Gln	Ala				
		115					120					125							
Ala	Gln	Ser	Gly	Val	Trp	Asn	Asp	Asp	Ser	Met	Leu	Gly	Pro	Ser	Gln				
		130					135				140								
Asn	Phe	Glu	Ala	Glu	Ser	Ile	Gln	Asp	Asn	Ala	His	Met	Ala	Glu	Gly				
145					150					155					160				
Thr	Gly	Phe	Tyr	Pro	Ser	Glu	Pro	Met	Leu	Cys	Ser	Glu	Ser	Val	Glu				
				165					170					175					
Gly	Gln	Val	Pro	His	Ser	Leu	Glu	Thr	Leu	Tyr	Gln	Ser	Ala	Asp	Cys				
			180					185					190						
Ser	Asp	Ala	Asn	Asp	Ala	Leu	Ile	Val	Leu	Ile	His	Leu	Leu	Met	Leu				
		195					200					205							
Glu	Ser	Gly	Tyr	Ile	Pro	Gln	Gly	Thr	Glu	Ala	Lys	Ala	Leu	Ser	Met				
		210				215					220								
Pro	Glu	Lys	Trp	Lys	Leu	Ser	Gly	Val	Tyr	Lys	Leu	Gln	Tyr	Met	His				
225					230					235					240				
Pro	Leu	Cys	Glu	Gly	Ser	Ser	Ala	Thr	Leu	Thr	Cys	Val	Pro	Leu	Gly				
				245					250					255					
Asn	Leu	Ile	Val	Val	Asn	Ala	Leu	Asn	Leu	Pro	Asp	Val	Phe	Gly	Leu				
			260					265					270						
Val	Val	Leu	Pro	Leu	Glu	Leu	Lys	Leu	Arg	Ile	Phe	Arg	Leu	Leu	Asp				
		275					280					285							
Val	Arg	Ser	Val	Leu	Ser	Leu	Ser	Ala	Val	Cys	Arg	Asp	Leu	Phe	Thr				
		290				295					300								
Ala	Ser	Asn	Asp	Pro	Leu	Leu	Trp	Arg	Phe	Leu	Tyr	Leu	Arg	Asp	Phe				
305					310					315					320				
Arg	Asp	Asn	Thr	Val	Arg	Val	Gln	Asp	Thr	Asp	Trp	Lys	Glu	Leu	Tyr				
				325					330					335					
Arg	Lys	Arg	His	Ile	Gln	Arg	Lys	Glu	Ser	Pro	Lys	Gly	Arg	Phe	Val				
			340					345					350						
Met	Leu	Leu	Pro	Ser	Ser	Thr	His	Thr	Ile	Pro	Phe	Tyr	Pro	Asn	Pro				
		355					360					365							
Leu	His	Pro	Arg	Pro	Phe	Pro	Ser	Ser	Arg	Leu	Pro	Pro	Gly	Ile	Ile				
		370				3													

385		390		395		400
Ile Ser Ser Leu Ile Pro Gly Pro Gly Glu Thr Pro Ser Gln Phe Pro						
	405			410		415
Pro Leu Arg Pro Arg Phe Asp Pro Val Gly Pro Leu Pro Gly Pro Asn						
	420		425		430	
Pro Ile Leu Pro Gly Arg Gly Gly Pro Asn Asp Arg Phe Pro Phe Arg						
	435		440		445	
Pro Ser Arg Gly Arg Pro Thr Asp Gly Arg Leu Ser Phe Met						
	450		455		460	

<210> 1868
 <211> 174
 <212> PRT
 <213> Homo sapiens

<400> 1868
Met Phe Val Pro Ser Cys Leu Cys Leu Arg Phe Val Val Thr Ser Leu
1 5 10 15
Leu Leu Gln Met Thr His Ser Cys Gly Gly Phe Tyr Ile Cys Val Ile
20 25 30
Phe Glu Thr Ile Leu Ser Glu Phe Lys Thr Gln Ile Gly Arg Leu Tyr
35 40 45
Arg Lys Arg His Ile Gln Arg Lys Glu Ser Pro Lys Gly Arg Phe Val
50 55 60
Met Leu Leu Pro Ser Ser Thr His Thr Ile Pro Phe Tyr Pro Asn Pro
65 70 75 80
Leu His Pro Arg Pro Phe Pro Ser Ser Arg Leu Pro Pro Gly Ile Ile
85 90 95
Gly Gly Glu Tyr Asp Gln Arg Pro Thr Leu Pro Tyr Val Gly Asp Pro
100 105 110
Ile Ser Ser Leu Ile Pro Gly Pro Gly Glu Thr Pro Ser Gln Phe Pro
115 120 125
Pro Leu Arg Pro Arg Phe Asp Pro Val Gly Pro Leu Pro Gly Pro Asn
130 135 140
Pro Ile Leu Pro Gly Arg Gly Gly Pro Asn Asp Arg Phe Pro Phe Arg
145 150 155 160
Pro Ser Arg Gly Arg Pro Thr Asp Gly Arg Leu Ser Phe Met
165 170

<210> 1869
 <211> 164
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (76)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (112)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (146)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1869
 Met Arg Thr Leu Val Glu Leu Gly Pro Trp Ala Gly Asp Phe Gly Pro
 1 5 10 15
 Asp Leu Leu Leu Thr Leu Leu Phe Leu Leu Phe Leu Ala His Gly Val
 20 25 30
 Thr Leu Asp Gly Ala Ser Ala Asn Pro Thr Val Ser Leu Gln Glu Phe
 35 40 45
 Leu Met Ala Glu Gln Ser Leu Pro Gly Thr Leu Leu Lys Leu Ala Ala
 50 55 60
 Gln Gly Leu Gly Met Gln Ala Ala Cys Thr Leu Xaa Arg Leu Cys Trp
 65 70 75 80
 Ala Trp Glu Leu Ser Asp Leu His Leu Leu Gln Ser Leu Met Ala Gln
 85 90 95
 Ser Cys Ser Ser Ala Leu Arg Thr Ser Val Pro His Gly Ala Leu Xaa
 100 105 110
 Glu Ala Ala Cys Thr Phe Cys Phe His Leu Thr Leu Leu His Leu Arg
 115 120 125
 His Ser Pro Pro Ala Tyr Ser Gly Pro Ala Val Ala Leu Leu Val Thr
 130 135 140
 Val Xaa Ala Tyr Thr Ala Gly Pro TyrVal Cys Phe Phe Asn Pro Ala
 145 150 155 160
 Leu Ala Ala Leu

<210> 1870

<211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1870
 Met Val Thr Phe Ile Asn Ala Thr Leu Trp Ile Ala Val Phe Ser Tyr
 1 5 10 15
 Ile Met Val Trp Leu Val Thr Ile Ile Gly Tyr Thr Leu Gly Ile Pro
 20 25 30
 Asp Val Ile Met Gly Ile Thr Phe Leu Ala Ala Gly Gln Val Phe Gln
 35 40 45
 Thr Ala Trp Pro Ala
 50

<210> 1871
 <211> 169
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (39)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (44)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1871
 Met Val Thr Phe Ile Xaa Ala Thr Leu Trp Ile Ala Val Phe Ser Tyr
 1 5 10 15
 Ile Met Val Trp Leu Val Thr Ile Ile Gly Tyr Thr Leu Gly Ile Pro
 20 25 30
 Asp Val Ile Met Gly Ile Xaa Phe Leu Ala Ala Xaa Thr Ser Val Pro
 35 40 45
 Asp Cys Met Ala Ser Leu Ile Val Ala Arg Gln Gly Leu Gly Asp Met
 50 55 60

Ala Val Ser Asn Thr Ile Xaa Ser Asn Val Phe Asp Ile Leu Val Gly
 65 70 75 80
 Leu Gly Val Pro Trp Gly Leu Gln Thr Met Val Val Asn Tyr Gly Ser
 85 90 9
 Thr Val Lys Ile Asn Ser Arg Gly Leu Val Tyr Ser Val Val Leu Leu
 100 105 110
 Leu Gly Ser Val Ala Leu Thr Val Leu Gly Ile His Leu Asn Lys Trp
 115 120 125
 Arg Leu Asp Arg Lys Leu Gly Val Tyr Val Leu Val Leu Tyr Ala Ile
 130 135 140
 Phe Leu Cys Phe Ser Ile Met Ile Glu Phe Asn Val Phe Thr Phe Val
 145 150 155 160
 Asn Leu Pro Met Cys Arg Glu Asp Asp
 165

<210> 1872

<211> 101

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1872

Met Lys Thr Leu Pro Ala Met Leu Gly Thr Gy Lys Leu Phe Trp Val
 1 5 10 15

Phe Phe Leu Ile Pro Tyr Leu Asp Ile Trp Asn Ile His Gly Lys Glu
 20 25 30

Ser Cys Asp Val Gln Leu Tyr Ile Lys Arg Gln Sr Glu His Ser Ile
 35 40 45

Leu Ala Gly Asp Pro Phe Glu Leu Glu Cys Pro Val Lys Tyr Cys Ala
 50 55 60

Asn Arg Pro His Val Thr Trp Cys Lys Leu Asn Gly Thr Thr Cys Val
 65 70 75 80

Lys Leu Glu Asp Arg Gln Thr Ser Trp Lys Lys Arg Arg Thr Phe His
 85 90 95

Phe Ser Ser Thr Xaa
 100

<210> 1873
 <211> 187
 <212> PRT
 <213> Homo sapiens

<400> 1873
 Met Val Ala Ala Thr Val Ala Ala Ala Trp Leu Leu Leu Trp Ala Ala
 1 5 10 15
 Ala Cys Ala Gln Gln Glu Gln Asp Phe Tyr Asp Phe Lys Ala Val Asn
 20 25 30
 Ile Arg Gly Lys Leu Val Ser Leu Glu Lys Tyr Arg Gly Ser Val Ser
 35 40 45
 Leu Val Val Asn Val Ala Ser Glu Cys Gly Phe Thr Asp Gln His Tyr
 50 55 60
 Arg Ala Leu Gln Gln Leu Gln Arg Asp Leu Gly Pro His His Phe Asn
 65 70 75 80
 Val Leu Ala Phe Pro Cys Asn Gln Phe Gly Gln Gln Glu Pro Asp Ser
 85 90 95
 Asn Lys Glu Ile Glu Ser Phe Ala Arg Arg Thr Tyr Ser Val Ser Phe
 100 105 110
 Pro Met Phe Ser Lys Ile Ala Val Thr Gly Thr Gly Ala His Pro Ala
 115 120 125
 Phe Lys Tyr Leu Ala Gln Thr Ser Gly Lys Glu Pro Thr Trp Asn Phe
 130 135 140
 Trp Lys Tyr Leu Val Ala Pro Asp Gly Lys Val Val Gly Ala Trp Asp
 145 150 155 160
 Pro Thr Val Ser Val Glu Glu Val Arg Pro Gln Ile Thr Ala Leu Val
 165 170 175
 Arg Lys Leu Ile Leu Leu Lys Arg Glu Asp Leu
 180 185

<210> 1874
 <211> 105
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (69)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1874
 Met Ser Gly Leu Ala Ala Ala Ala His Val Phe Arg Val Cys Leu Phe
 1 5 10 15

Pro Leu Ser Trp Gly Ser Ser Lys Thr Thr Phe Ile His Gly Leu Ser
 20 25 30
 Ser Tyr Ile Ala Thr Pro Val Leu Asn Ser Ile Phe Ser Ser Trp Lys
 35 40 45
 Ser Arg Arg Lys Asp Thr Trp Thr Cys Leu Leu His Arg Leu Ser Ala
 50 55 60
 Phe Pro Ile Ser Xaa Arg Arg Arg Asn Phe Ala Leu Phe Ser His Ser
 65 70 75 80
 Cys Val Cys Ile Arg Ser Ser Ser Asp Asp Val Gly Pro Thr Met Tyr
 85 90 95
 Ser Phe Ser Val Pro Cys Arg Val Lys
 100 105

<210> 1875
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1875
 Met Gly Ser Phe Leu His Pro Gln Trp His Leu Leu Ile Thr Phe Cys
 1 5 10 15
 Ala Val Leu Gly Lys Gly Leu His Ser Asp Pro Ser Arg Pro Phe Glu
 20 25 30
 His Gly Gly Ala Leu Gly Lys Val Pro Arg Gly Arg Ser Thr Leu Leu
 35 40 45
 Ser Lys Glu Val Leu Leu Lys Lys Lys Lys Lys Lys Arg
 50 55 60

<210> 1876
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 1876
 Leu Pro Trp Leu Pro Phe Phe Phe Ser Cys Leu Val Ser Thr Leu Pro
 1 5 10 15
 Ser Met Ser Val Ser Ala Phe Ser Leu Val Val Arg Gly Arg Arg Ala
 20 25 30
 Phe Thr Ser Val Arg
 35

<210> 1877
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 1877
 Pro Leu Cys Leu Ala Leu Glu Leu Gly Trp Val Cys Leu Ser Ser Thr
 1 5 10 15

<210> 1878
 <211> 117
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (113)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1878
 Met Leu Leu Trp Trp Gln Cys Leu Cys Cys His Ala Val Leu GluPro
 1 5 10 15
 Ala Ala Thr Ala Met Pro Glu Asp Ala Ala Pro Ser Ser Leu Pro Val
 20 25 30
 Pro Pro Asn Met Thr Ser Ser Arg Phe His Tyr Phe Trp Thr Leu Leu
 35 40 45
 Gln Ile Lys Leu Thr Gln Phe Tyr Ser Lys Pro Arg Ser Leu Ser Ala
 50 55 60
 Thr Pro Glu Lys Asn Ile Gly Leu Gln Glu Pro Glu Arg Arg Glu Arg
 65 70 75 80
 Phe Thr Gly Glu Ser Cys Arg Trp Glu Leu Lys Ala Lys Ser Cys Leu
 85 90 95
 Cys Pro Thr Arg Asn Ser Leu Gly Cys Thr Gln Cys His Cys Asp Gly
 100 105 110
 Xaa Lys Ile Cys Asn
 115

<210> 1879
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 1879

Met Arg Arg Gln Thr Phe Met Ser Ile Leu Val Phe Gln Cys Ser Pro
1 5 10 15

Ile Ser Phe Gly Leu Cys Ile Asn Lys Glu Arg Thr Val Val Ser Ser
20 25 30

Val Ile Thr Asp Asn Leu Cys Leu
35 40

<210> 1880

<211> 77

<212> PRT

<213> Homo sapiens

<400> 1880

Met Tyr Ala Ser Val Leu Leu Thr Gly Leu Leu Ser Leu Gln Arg Cys
1 5 10 15

Leu Ala Val Thr Arg Pro Phe Leu Ala Pro Arg Cys Ala Ala Arg Pro
20 25 30

Trp Pro Ala Ala Cys Cys Trp Arg Ser Gly Trp Pro Pro Cys Cys Ser
35 40 45

Pro Ser Arg Pro Pro Ser Thr Ala Thr Cys Gly Gly Thr Ala Tyr Ala
50 55 60

Ser Cys Ala Thr Arg Arg Arg Ser Thr Pro Pro Pro Thr
65 70 75

<210> 1881

<211> 150

<212> PRT

<213> Homo sapiens

<400> 1881

Met Leu Ala Val Leu Ala Phe Pro Val Gly Val Phe Val Val Ala Val
1 5 10 15

Phe Trp Ile Ile Tyr Ala Tyr Asp Arg Glu Met Ile Tyr Pro Lys Leu
20 25 30

Leu Asp Asn Phe Ile Pro Gly Trp Leu Asn His Gly Met His Thr Thr
35 40 45

Val Leu Pro Phe Ile Leu Ile Glu Met Arg Thr Ser His His Gln Tyr
50 55 60

Pro Ser Arg Ser Ser Gly Leu Thr Ala Ile Cys Thr Phe Ser Val Gly
65 70 75 80

Tyr Ile Leu Trp Val Cys Trp Val His His Val Thr Gly Met Trp Val

	85		90		95										
Tyr	Pro	Phe	Leu	Glu	His	Ile	Gly	Pro	Gly	Ala	Arg	Ile	Ile	Phe	Phe
			100					105					110		
Gly	Ser	Thr	Thr	Ile	Leu	Met	Asn	Phe	Leu	Tyr	Leu	Leu	Gly	Glu	Val
		115					120					125			
Leu	Asn	Asn	Tyr	Ile	Trp	Asp	Thr	Gln	Lys	Ser	Met	Glu	Glu	Glu	Lys
	130					135					140				
Glu	Lys	Pro	Lys	Leu	Glu										
145					150										

<210> 1882

<211> 102

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1882

Met	Met	Ile	Ser	Ile	Val	Gly	Phe	Leu	Ser	Pro	Phe	Asn	Met	Ile	Leu
1				5					10					15	

Gly	Gly	Ile	Val	Val	Val	Leu	Val	Phe	Thr	Gly	Phe	Val	Trp	Ala	Ala
			20					25					30		

His	Asn	Lys	Asp	Val	Leu	Arg	Arg	Met	Lys	Lys	Arg	Tyr	Pro	Thr	Thr
		35					40					45			

Phe	Val	Met	Val	Val	Met	Leu	Ala	Ser	Tyr	Phe	Leu	Ile	Ser	Met	Phe
	50					55					60				

Gly	Gly	Val	Met	Val	Xaa	Val	Phe	Gly	Ile	Thr	Phe	Pro	Leu	Leu	Leu
65					70					75					80

Met	Phe	Ile	His	Ala	Ser	Leu	Arg	Leu	Arg	Asn	Leu	Lys	Asn	Lys	Leu
				85					90					95	

Glu	Asn	Lys	Met	Glu	Gly
			100		

<210> 1883

<211> 188

<212> PRT

<213> Homo sapiens

<400> 1883

Met Asp Val Asn Ile Ala Pro Leu Arg Ala Trp Asp Asp Phe Phe Pro

1		5		10		15									
Gly	Ser	Asp	Arg	Phe	Ala	Arg	Pro	Asp	Phe	Arg	Asp	Ile	Ser	Asn	Trp
		20						25					30		
Asn	Asn	Arg	Val	Val	Ser	Asn	Leu	Leu	Tyr	Tyr	Gln	Thr	Asn	Tyr	Leu
		35					40					45			
Val	Val	Ala	Ala	Met	Met	Ile	Ser	Ile	Val	Gly	Phe	Leu	Ser	Pro	Phe
	50					55					60				
Asn	Met	Ile	Leu	Gly	Gly	Ile	Val	Val	Val	Leu	Val	Phe	Thr	Gly	Phe
65				70						75					80
Val	Trp	Ala	Ala	His	Asn	Lys	Asp	Val	Leu	Arg	Arg	Met	Lys	Lys	Arg
				85					90					95	
Tyr	Pro	Thr	Thr	Phe	Val	Met	Val	Val	Met	Leu	Ala	Ser	Tyr	Phe	Leu
			100					105					110		
Ile	Ser	Met	Phe	Gly	Gly	Val	Met	Val	Phe	Val	Phe	Gly	Ile	Thr	Phe
		115					120					125			
Pro	Leu	Leu	Leu	Met	Phe	Ile	His	Ala	Ser	Leu	Arg	Leu	Arg	Asn	Leu
	130					135					140				
Lys	Asn	Lys	Leu	Glu	Asn	Lys	Met	Glu	Gly	Ile	Gly	Leu	Lys	Arg	Thr
145					150				155						160
Pro	Met	Gly	Ile	Val	Leu	Asp	Ala	Leu	Glu	Gln	Gln	Glu	Glu	Gly	Ile
			165						170					175	
Asn	Arg	Leu	Thr	Asp	Tyr	Ile	Ser	Lys	Val	Lys	Glu				
		180						185							

<210> 1884
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 1884															
Met	Ser	Met	Lys	Cys	Tyr	Leu	Val	Val	Leu	Ile	Cys	Ile	Pro	Leu	Met
1				5					10					15	
Ala	Thr	Asp	Ala	Glu	Cys	Leu	Phe	Leu	Cys	Leu	Arg	Ala	Met	Arg	Ile
			20					25					30		
Ser	Leu	Glu	Lys	Gly	Leu	Ser	Arg	Ser	Phe	Ala	Tyr	Phe			
		35					40					45			

<210> 1885
 <211> 136
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1885

Xaa Tyr Xaa Ser Cys Arg Lys Xaa Tyr Leu Thr Tyr Gly Xaa Asn Ser
1 5 10 15

Arg Val Asp Pro Arg Val Arg His Val Cys Gly Val Arg Ala His Gly
20 25 30

Ala Gly Val Pro His Leu Val Ser Gly Gly Asp Glu Val Ser Pro Gly
35 40 45

Gly Ala Gly Pro Val Ser His SerAla Glu Glu Gln Pro Val His Gln
50 55 60

Val Asp Arg Leu Cys Gly Ala Cys Pro Gly Gln Arg Val Phe Leu Cys
65 70 75 80

Pro Gly Glu Pro Gly Ala Lys Ser Gly ArgHis Leu Ser Gly Gly Val
85 90 95

Pro Pro Tyr Thr Glu Cys Asp His Ala Gln Pro Leu Ala Arg Pro Gly
100 105 110

Ala Val Glu Ser Cys Asn His Glu Val Cys AlaGln Thr Gly Glu Thr
115 120 125

Val Gln Pro Leu Met Ala Arg Arg
130 135

<210> 1886

<211> 141

<212> PRT

<213> Homo sapiens

<400> 1886

Gly Gly Glu Arg His Leu His Arg Thr His Pro Arg Leu Pro Gly His
 1 5 10 15
 Arg Phe Leu Arg Leu His Arg Ala Pro Arg Val Pro His Val Cys Gly
 20 25 30
 Val Arg Ala His Gly Ala Gly Val Pro His Leu Val Ser Gly Gly Asp
 35 40 45
 Glu Val Ser Pro Gly Gly Ala Gly Pro Val Ser His Ser Ala Glu Glu
 50 55 60
 Gln Pro Val His Gln Val Asp Arg Leu Cys Gly Ala Cys Pro Gly Gln
 65 70 75 80
 Arg Val Phe Leu Cys Pro Gly Glu Pro Gly Ala Lys Ser Gly Arg His
 85 90 95
 Leu Ser Gly Gly Val Pro Pro Tyr Thr Glu Cys Asp His Ala Gln Pro
 100 105 110
 Leu Ala Arg Pro Gly Ala Val Glu Ser Cys Asn His Glu Val Cys Ala
 115 120 125
 Gln Thr Gly Glu Thr Val Gln Pro Leu Met Ala Arg Arg
 130 135 140

<210> 1887

<211> 839

<212> DNA

<213> Homo sapiens

<400> 1887

cccacacggt	tctgcagatg	cccgcatcat	ggtcctgagg	ggatgggggc	tggcctggag	60
cctttccccc	gtggtgtgtg	gctatagcgg	ggacatgaag	ggggtgtgtt	ggggacgtag	120
tgaccactcc	cttctaccgt	cagagatcct	gcttccccct	gccccctgcc	cctcctcggc	180
tgcccttcat	aaccccccac	ccactcccca	cctgcccctct	cctgtgcttg	tgccgatcca	240
ggaagcacct	acctgggcac	agagatcatc	gctcggtgcc	tcgcccctac	acaagggcga	300
ttaacttctc	tgttatgaac	tcctacttag	taatttgac	atgaaactcc	cactaggata	360
aaacttggcg	cagaacagca	attactgaaa	acacattttt	aaaaagggtg	atgttttgta	420
agagttcatc	ctcctccact	cctcagcctc	cctcaaggag	acacatattt	agatcttctc	480
tgtgtgagtc	taacttgag	actgtgagtt	gcagtttaaa	aggggctctg	gggccagggtg	540
cgggtggcaca	cacttgtggt	ctcagctact	caagaggctg	agatgtgagg	aacgcttgag	600
cccaggagtt	caagaccagc	ctgagcaaca	tagggagatg	ggatctaccc	aaaacactta	660
acaataaggc	tggcatggtg	gcataatgct	gtggtcccag	ctacttgag	gctgaggcag	720
gagaatcatt	taagcctggg	agatcgaggc	tgagtgagg	tatggtttca	actgctgtgc	780
tccagcctgg	gagacagggc	aatactgtgt	ctctaaaaaa	taaaaaataa	aaataaaaaa	839

<210> 1888

<211> 839

<212> DNA

<213> Homo sapiens

<400> 1888

cccacccggt	tctgcagatg	cccgcatcat	ggtcctgagg	ggatgggggc	tggcctgtag	06
cctttccccc	gtggtgtgtg	gctatagcgg	ggacatgaag	ggggtgtgtt	ggggacgtag	120
tgaccactcc	cttctaccat	cagagatcct	gcttccccct	gccccctgcc	cctcctcggc	180
tgcccttcat	aacccccccac	ccactcccca	cctgccatct	cctgtgcttg	tgtggatcca	240
ggaagcacct	acctgggtac	agagatcatt	gctcgggtgcc	tcgccccctac	acaagggcga	300
ttactttgtc	tgttatgaac	tcctacttag	taattccgac	atgaaactcc	caactaggata	360
aaacttggcg	cagaacagca	attactgaaa	acacattttt	aaaaagggtt	acgtttttgta	420
agagttcatc	ctcctccact	cctcagcctc	cctcaaggag	acacatattt	agatcttctc	480
tctgtgagtc	taacttggag	actgtgagtt	gcagtttaaa	aggggctctg	gggccagggtg	540
cgggtggcaca	cacttgtggt	ctcagctact	caagaggccg	agatgtgagg	aacgcttgag	600
cccaggagtt	caagaccagc	ctgagcaaca	tagggagatg	ggatctacca	aaaacattta	660
acaataaggc	tggcatggtg	gcctatgcct	gtgggtccag	ctacttggag	gctgaggcag	720
gagaatcatt	taagcctggg	agatcgaggc	tgcagtggag	tatggtttca	actgctgtgc	780
tccagcctgg	gagacagggc	aatactctgt	ctctaaaaaa	taaaaataaa	aaataaaaa	839

<210> 1889

<211> 837

<212> DNA

<213> Homo sapiens

<400> 1889

cccacccggt	tctgcagatg	cccgcatcat	ggtcctgagg	ggatgggggc	cggcctggag	60
cctttccccc	gtggtgtgtg	gctatagcgg	ggacatgaag	ggggtgtgtt	ggggacgtag	120
tgaccactcc	cttctaccgt	cagagatcct	gcttccccct	gccccctgcc	cctcctcggc	180
tgcccttcat	aacccccccac	ccactcccca	cctgccatct	cctgtgcttg	tgcggatcca	240
ggaagcacct	acctgggcac	agagatcatt	gctcgggtgcc	tcgccccctac	acaagggcga	300
ttactttctc	tgttatgaac	tcctacttag	taattctgac	atgaaactcc	caactaggata	360
aaacttggcg	cagaacagca	attactgaaa	acacattttt	aaaaagggtt	agtttttcta	420
agagttcatc	ctcctccact	cctcagcctc	cctcaaggag	acacatattt	agatcttctc	480
tgtgtgagtc	taacttggag	actgtgagtt	gcagtttaaa	aggggctctg	gggccagggtg	540
cgggtggcaca	cacttgtggt	ctcagctact	caagaggctg	agatgtgagg	aacgcttgag	600
cccaggagtt	caagaccagc	ctgagcaaca	tagggagatg	ggatctaccc	aaaacattta	660
acaataaggc	tggcatggtg	gcctatgcct	gtgggtccag	ctacttggag	gctgaggcag	720
gagaatcatt	taagcctggg	agatcgaggc	tgcagtggag	tatggtttca	actgctgtgc	780
tccagcctgg	gagacagggc	aatactgtgt	ctctaaaaaa	taaaataaat	aaataaaa	837

<210> 1890

<211> 836

<212> DNA

<213> Homo sapiens

<400> 1890

cccacccggt	tctgcagatg	cccgcatcat	gtcctgaggg	gatgggggct	ggcctgtagc	60
ccttccccct	ggtgtgtgtg	tatagcgggg	acatgaaggg	ggtgtgtgtg	ggatgtagtg	120
accactccct	tctaccgtca	gagatcctgc	ttccccctgc	cccctgcccc	tcctcggctg	180
cccttcataa	ccccccaccc	actccccacc	tgccatctcc	tgtgcttctg	tggatccagg	240
aagcacctac	ctgggtacag	agatcattgc	tcggtgcctc	gccccctacac	aagggcgatt	300
aacttgtctg	ttatgactcc	tacttagtaa	ttccgacatg	aaactccac	taggataaaa	360
cttggcgag	aacagcaatt	actgaaaaca	cattttttaa	aagggtgacg	ttttgtaaga	420
gttcatcctc	ctccactcct	cagcctccct	caaggagaca	catatttaga	tcttctctct	480
gtgagtctaa	cttggagact	gtgagttgca	gtttaaaagg	ggctctgggg	ccagggtcgg	540
tggcacacac	ttgtggtctc	agctactcaa	gaggccgaga	tgtgaggaac	gcttgagccc	600
aggagttcaa	gaccagcctg	agcaacatag	ggagatggga	tctaccaaaa	acatttaaca	660
ataaggctgg	catggtggca	tatgcctgtg	gtcccagcta	cttggaggct	gaggcaggag	720
aatcatttaa	gcctggggaga	tcgaggctgc	agtgaggtat	ggtttcaact	gctgtgctcc	780
agcctgagag	acagggcaat	actctgtctc	taaaaataaa	aaaataaaaa	taaaaa	836

<210> 1891
 <211> 4269
 <212> DNA
 <213> Homo sapiens

<400> 1891
 agcgtcctgt gaggaggagg ctgcaactgcc actttactga tgaggaagtt aagggttcaga 60
 gagatgaggt catttggttag aggccagaca gcctcctcag cccattttcta aggttggtttc 120
 tgtggtatatt gccataaagc catagggttca ttgatttggt ctttaagtagt tctgagccct 180
 tcctgcatat caggcaggga caaacaggaa agtccctgcc tttggcaagt gcgggggaaa 240
 tgaaatgatt ctgctcagcc tcatccattg gtctga~~aaa~~aa tcacgtctca tgaccgcagg 300
 gacacggctt cccctgaacg cggatcctag aggccaggca gaagcagcat gggtttccac 360
 tcacacggta ggcggctgtg caatttcgtc tggagtcccc agaccctcc tcatccttcc 420
 cagggttgct ctgaggccat tccttgatcat ctaggagggg tctacataaa agcattttata 480
 aacacctcca aatgggagcc aggcgtgccc acccttgagg cacttttctc tactgcaaat 540
 ttatctactg ctctgtaaat ctctggattt aactctgatg aaagactgga ggctgaagga 600
 gaacttcaat atcatatatt ttaaaggttg attcacagtt tggagcaaga attaaagaac 660
 cacgaacttc aaggtaaaac gggcaacggc gtggggcaa gcctctctgc atctgcgtgt 720
 ccagcctctc ctgctgacca gaagttccca ggcaggagtg tggtaggaca tccggctggg 780
 gtaaggacag gcaccctccc actgtgtcag ggcccagaga gtgggtggag aagctctgca 840
 agagacctgt gcaagggcgc cttgcaggag cctgcagtc ccacaggtgt gtttgtggat 900
 aacacttggg gagccctggc cttttggggt caccgagggc ttggcctctc acctcagagc 960
 tgcagagaag ccgcttctac atcaggacat cagaagctgg aacaggatgg ccggcgaggg 1020
 gcctcttggt ggggtcacag agatgggtcg cagagatggc ccgtgtggaa ggttggattc 1080
 tcaccccacc tctgccccta gatgtctgg tgaccctccc ctctgtagtc ttggtttttt 1140
 gcaaacaggt tatgacctcc tgccatactg ggtactttgc ttatgtattg tgtttactct 1200
 ttactgtgtg tctctcctgc taaggtctac gaagaagggt ctttgtgggt ggggttctta 1260
 gaggcatacc aagtaccaga agcagtcctt ggactaaggg gctcaataaa tatttttat 1320
 ttattatatt ttctttttga gatggagtct cgctctcttg accaggctgg agtacagtgg 1380
 cacaatcttg gctcactgca gccttcgcct cctgggttca agtgatttcc ggctaatttt 1440
 tgtattttta gtagtgacgg ggtatcacca tgttggccag gctggtcaca aactcctgac 1500
 ctcaagtgat ccaccgcct cagcctccca acatgctggg attatagaca tgagccacca 1560
 tgccctggcca aatatttgtc aaattgaatt tgtattttcca taaaatttt agtctggata 1620
 aagtgcttca tgccctgtaat ccaagcactt tgagaggctg aggcgggtgg atggcttgag 1680
 ccgagaggtt tgagaccagc atggaaaaca tagagaaacc ccatctcaat taagaagaa 1740
 gaagaaaaag aaaaaaaaaa tcaaaaacga aaacaacaca aatttttagag taagtatttt 1800
 aagttccaca aaaacctggg taggatattg atagcaattt ctttagttct acaaatcaat 1860
 ttggaaaaaa ttaattaatt tgggaagaat tcatttttag tcttctaata catgaacatg 1920
 gtatctccat ttgttttagac catctttaat gcctactaat aacattttctg tatagtgacc 1980
 ttgcacatta ttcttagatt cttgatattt tgtgctatta tgtcttttta taaattttat 2040
 tttccaaca ttgttgctaa tatatagtaa gaaaatggaa tcttgccat agattttgaa 2100
 cccaacaact ttgctaaact cctctgaatc ctcagaattt ccctgggat tatgtaggct 2160
 cttctgcata cacaaccata tcatctgtga ataaagacag ttttgttttc ttcttcacaa 2220
 actttaccog actcactgtg cagtctgcca catccaggct gatattgaat agcagtggca 2280
 ctaataggat tctttgcccc cttgccaatc ttgtaaagaa agctttcaac attttctgt 2340
 tagctctgtt ggcagctctg acttttttcca tagatggcct tcatcagctt aacaatgggt 2400
 cttttcttcc cagagggctg agcttttctt taagaacaga cagttagtgt catcaaacac 2460
 taggctgcat ctgttgagat ggtcatacga cttgtgtctt ttctgtgtt tgtgtgtgaa 2520
 ctctctgggt gtctgagggt tcttgtgact ttcacagaagaacacaattt accctccggt 2580
 gtgggaaggg gaaggaggca gaggaagaaa gaccccaagt cccctcatc cccactgacc 2640
 ttctgtctgg cttcgtcctt gatctgtgcc tcttagatc ctgctgttga gtacttgagg 2700
 tcatgatgac agggccaacc tctgaccag ggtgttagc acctcccctg ctgcccagag 2760
 tccctgtctc aaaccacttc cttcatcttc cgtaccccca gccaatattt cctgcccag 2820
 tgtcaaccca gggccagacc cagaccacaa gggacagccc gaaaaccag aatcagacaa 2880
 atcagcccgt cccaagctgt ctcccctgct ctgcccggct ttcacaggga agccaacaca 2940
 ggctgtggct tggcctttcc ctagctcctt tctgtctct ggtctgctg cggcttcccc 3000
 ctgcccgcct gcggggcctg ccacgtctct catttctage gaatgtttca agagcgatgt 3060

tagactttcc	tttcaataga	gttgacctct	gttaggcacc	tttatggatt	aagacctggg	3120
catagatggt	ttcttcggca	tcacgacctg	aagggtgctt	ggagagacgg	tgaggaggag	3180
aatgcacctt	gccatgctct	gcaccgcaca	tggatgcgga	tttcaccatg	ttggccaggc	3240
tgtctgaaa	cacacggagc	ccaagcggcc	ggtggactct	ctgacggtcc	tcgggcgtgt	3300
gcctttgtaa	gcagagtatt	cagctctcat	cagggcctcg	ccagagcaga	aatggtctgt	3360
tgataaatgc	atcgtatata	attataaatg	tgcaccacgc	attgctgctt	cctctttttt	3420
ttttgatata	gggacttgct	ctgtcgccca	ggctgcagt	cagtagggca	gtcacagctc	3480
actgcggcct	caacctccca	ggctcaagca	atccttccgc	ctcagcctcc	taagtagctg	3540
gaactacaca	tccagctttt	ttttttttt	ttttgtagac	acaggatctc	accatgttgg	3600
ccaggctggt	cttaaaactcc	tgggctcaag	tgatccgccc	accttgggct	cccaaagtac	3660
tggcattaca	ggtgggagcc	actatgcctg	gcctgcttcc	ttttgcaaac	agaaaatctt	3720
ggtaaataga	attgatcaga	acttgttgtt	taacgtacac	gacctctagc	tgtactgcaa	3780
agctgtgtgc	acatgtgtta	agtatctgt	tctatgtgtt	ctaattataa	ataagaaaaa	3840
acaaatttca	atcaaccatg	ctggaggaag	agcaattatg	tttctattcc	ttctatcata	3900
ggtgatgtaa	aattctcaaa	caatgagata	gataaaaagt	acgcagccaa	aaagttcaag	3960
aagaagtgtt	atggagatgg	agcaggccct	tcgtaaaaac	acgatgttgg	tttttggat	4020
tttgtatgtt	tgcttttttt	tttctctatc	ctaaagaaat	attcactgtc	atacctaatt	4080
ttgtttttgt	aagtttgtat	tctttcttta	tagggaggcc	tcacaaaacc	cggatcagac	4140
tcgcccactg	ccctgtgtct	gccctcccga	ccgcctctcc	tgcccagcag	ggatgagggg	4200
ggcagtggtg	ctgtgtggag	ggtggcggga	ggacctggaa	gactgcgacc	agtgagccgg	4260
gaggccttg						4269

<210> 1892

<211> 4273

<212> DNA

<213> Homo sapiens

<400> 1892

agcgtcctgt	gagggagggg	ctgcaactgcc	actttactga	tgaggaaatt	aggttcaga	60
gagatgaggt	catttgtag	aggccagaca	gcctcctcag	cccatttcta	aggttgtttc	120
tgtgtatttg	ccataaagcc	ataggttcat	tgatttgttc	ttaagtagtt	ctgagtcctt	180
cctgcatatc	aggcagggac	aaacgggaaa	gtccctgcct	tggcaagtgc	gggggaaatg	240
aaatgattct	gctcagctc	atccattggt	ctgaacaatc	acgtctcatg	accccaggga	300
cacggcttcc	cctgaacgcg	gatcctagag	gccaggcaga	agcagcatgc	ggtttccact	360
cacacggtag	gtggctgtgc	gatttcgtct	ggagtccccg	gacccctcct	catccttccc	420
agggttgctc	tgaggccatt	cctcgtcatc	taggaggggt	ctacataaa	gcatttataa	480
acagctccaa	atgggagcct	ggcgcgcccc	cctttggagc	acttttctct	actgcagatt	540
tatctactgc	tcgtgaaatc	tctggattta	actgtgatga	aagaccggag	gctgaaggag	600
aacttcaata	tcatatattt	ttaaagttga	ctcacagttt	ggaacaagaa	ttaaagaacc	660
acgaacttca	aggtaaaacg	ggcaatggcg	ttggggcaag	cctctctgca	tctgtgtgtc	720
cagcctctcc	tgcgtgccag	aagtccccag	gcaggagtgt	ggtgggacat	ccggctgggg	780
taaggacagg	caccctccca	ctgtgtcagg	gcccagagag	tgggtggaga	agctctgcaa	840
gagacctgtg	caagggcgcc	ttgtaggagc	ctgccgtccc	acaggggtg	tttgtggata	900
acacttgggg	agccctggcc	ttttggggtc	acggagggct	tggcctctca	cctcagagct	960
gcagaggaga	cgcttctaca	tcaggacatc	agaagctgga	acggggatgg	ccggcgaggg	1020
gcctcttgtt	ggggtcacag	agatgggtcg	cagagatggc	ctgtgtggaa	ggttggattc	1080
tcaccccacc	tctgcccta	gatgtcctgg	tgaccctccc	ctctgtagtc	ttgggttttt	1140
gcaaaacact	tatgacctcc	tgccatactg	ggtactttgc	ttatgtattg	tgtttactct	1200
ttactgtgtg	tctctcctgc	taaggtctac	gaagaagggt	ctttgtgggt	ggggttctta	1260
gaggcatccc	aagtaccaga	agcagtccct	ggactaggg	gctcaagaaa	tattttttat	1320
ttattatttt	ttctttttga	gatgcagtct	ctctctcttg	cccaggctgg	agtacagtgg	1380
cacaatcttg	gctcactgca	gccttcgcct	cctgggttca	agtatttca	ggctaatttt	1440
tgtattttta	gtagagacgg	ggtttcacca	tgttggccag	gctggtcacg	aactcctgac	1500
ctcaagtgat	ccacctccca	cagctcctgg	gctgtctggg	attatagaca	tgagccacca	1560
tgcttgcca	aatatttgtc	aaattgaatt	tgtattttca	tacaaatttt	agtctggatg	1620
aagtgtttca	tgctgtaat	ccaagcactt	tgagaggctg	aggcgggcag	atggcttgag	1680
cccaggagtt	tgagaccagc	ctggaaaaca	tagagaaacc	ccgtctcaat	ataagaagaa	1740

gaagaaaaag	aaaaaaaaaa	aatcaaaaaac	gaaaacaaca	caaatttttag	agtaagtatt	1800
ttaagttcca	caaaaacctg	gttaggattt	ggatagcaat	ttcttttagtt	ctacaaatca	1860
atttggaana	aattaattaa	tttgggaaga	attcattttg	agtcttctaa	tccatgaaca	1920
tggatatctc	atttgtttag	accatcttta	atgcttgcta	ataacatttc	tgtatagtga	1980
ccttgtagat	tattcttaga	ttcttgatat	ttgtgctat	tatgtctttt	tataaatttt	2040
attttttcaa	cattgttgct	aatatatagt	aagaaaatgg	aatgttgccct	atggattttg	2100
aaccaacaac	ctttgctaaa	ctccttgtaa	tcctcagaat	ttccctgtgg	attatgtaga	2160
ctcttctgca	tacacaacca	tatcatctgt	gaataaagac	agttttgttt	tcttcttcac	2220
aaactttacc	caactcactg	tgcagtctgc	cacatccagg	ctgatattga	atagcagcgg	2280
caccaatagg	tgtctttgtc	cccttgccaa	tcttgtaaag	aaagctttca	acatttccct	2340
gttagctgtg	ttggcagctc	tgaacttttc	catagatggc	cttcatcagc	ttaacaacgg	2400
gtcttttctt	cccagagggc	tgagcttttc	cttaagaaca	gacagtgaat	gtcatcaaac	2460
actcggctgc	atctgttgag	atgggtcatac	gactgtgtgc	ttttcctgtg	tttgtgtatg	2520
aactctctct	gggtgtctga	gagttcttgt	gactttcaca	gaagaacaca	atttaccctc	2580
ccgtgtggga	aggggaagga	ggcagaggaa	gaaagacccc	aagtccccct	catccccact	2640
gaccttcctg	ctggcttcgt	ccttgatttg	tgcctcctta	gatcctgcgt	ttgactactt	2700
gcggtcatga	tgacagggcc	aacctcctga	ccagggtgtg	tggtacccctc	ctcctgccc	2760
agagcccctg	ctccaaacca	cttcattcat	cttctgtacc	cccagccaat	atttccctgc	2820
ccagtgtcaa	cccaggccca	gaaccagacc	acaagggaca	gccccggaac	ccagaatcag	2880
acaaatcagc	ccgtcccaag	ctgtctcccc	tgctctgccc	ggctttccca	ggaagccaac	2940
agaggtctgt	gcttgccctt	tcctctgctc	ctttctgcct	cctggtctgc	ctgcggtctc	3000
cccctgccc	cctgcggggc	ctgccatgtc	tctcatttct	agcgaatgtt	tccagagcga	3060
tgttagactt	tcctttcaat	agcgttgacc	tctgttaggc	acctttatgg	attaagacct	3120
gggcatagat	ggtttctctg	gcatacgcac	ctgaaggtgc	ttggggaga	cggtgaggag	3180
gagaatgcac	cctgccatgc	tctgcaactgc	acatggatgc	agattttacc	atgttgcca	3240
ggctggtctg	aaacacacgg	agcccaagcg	cccgtgggac	tctctgacgg	tcctcgggcg	3300
tgtgccattg	taagcagagt	attcagctct	catcagggcc	tcgccagagc	agaaatggtc	3360
tgttgataaa	tgcactgtat	acaattataa	atgtgcacc	agcattgtct	cttctctttt	3420
ttttttgata	tagggacttg	ctctgtcgcc	caggctgcag	cgagtaggg	cagtcacagc	3480
tcactgcagc	ctcaacctcc	caggctcaag	caatccttcc	acctcagcct	cctgagtagc	3540
tggaactaca	catccagcta	tttttttttt	ttttttgtag	gacacaggat	ctcaccatgt	3600
tggccaggct	ggtctttaa	tcctgcgctc	aagtgtccg	cccaccttg	gctcccaag	3660
tactggcatt	acaggtggga	gccactatgc	ctggcctgtc	tcctttcgca	aacaggaatc	3720
ttgtaaatag	aattgatcag	aacttggtgt	ttaattgtaca	cagacctcta	gctgtactgc	3780
aaagctgtgt	gcacatgtgt	taagtcatct	gttctatgtg	ttctaattat	aaataagaaa	3840
aaacaaattt	caatcagcca	tgtctggagga	agagcaatta	tgtttctatt	ccttctatcg	3900
taggtgatgt	aaaattctca	aacaatgaga	tagataaaaa	gtacgcagcc	aaaaagtga	3960
ggaagaagtg	ttatggagat	ggagcaggcc	cttgtaaaa	acacgatgtt	ggttttctgg	4020
attttgtatg	tttgcttttt	ttttttcctc	atcctaaaga	aatattcact	gtcatacct	4080
attttgtttt	tgtaagtttg	tattcttttc	tttataggga	ggcctcaca	aacctggatc	4140
agactgcgcc	actgccctgt	gtctgcctc	ccgacccctc	ctcctgcca	gcagggatgt	4200
gggtggcagt	ggtgctgtgt	ggaggggtggc	gggaggaccg	ggaagactgc	gaccagtga	4260
ccgggaggcc	ttg					4273

<210> 1893

<211> 4082

<212> DNA

<213> Homo sapiens

<400> 1893

agtgtcctgt	gagggagggg	ctgcactgcc	atttactga	tgaggaaatt	aaggttcaga	60
gagatcatgt	catttgtttag	aggccagaca	gcctcctcag	cccattttta	ggttgtttct	120
gtggtatttg	ccataaagcc	ataggttcat	tgatttggtc	ttaagtagtt	atgagccctt	180
cctgcatatc	aggcaggac	aaacaggaaa	gtccctgcct	ttggttaagt	cgggggaaat	240
gaaatgattc	tgtcagcct	catccattgg	tctgaacaat	cacgtctcat	gaccgcaggg	300
acacggcttc	ccctgaacgc	ggatcctaga	ggcaggcag	aagcagcatg	ggtttccact	360
cacatggtag	gtggctgtgc	aatttcgtct	ggagtcccca	gacccctcct	catccttccc	420

agggttgctc	tgaggccatt	cctcgtatc	taggaggggt	ctacataaaa	gcattttataa	480
acacctccaa	atggggagcca	ggcgtgcccc	ccttttgagc	acttttctct	actgcaaatt	540
tatctactgc	tcgtgaaatc	tctggattta	actctgatga	aagactggag	gctgaaggag	600
aacttcaata	tcatatattt	taaaggttga	ttcacagttt	ggagcaagaa	ttaaagacc	660
acgaacttca	aggtaaaacg	ggcaacggcg	ttggggcaag	cctctctgca	tctgcgtgtc	720
cagcctctcc	tgcgtgccag	aagtccccag	gcaggagtgt	ggtgggacat	ccggctgggg	780
taaggacagg	caccttccca	ctgtgtcagg	gcccagagag	tgggtggaga	agctctgcaa	840
gagacctgtg	caagggcgcc	ttgtaggagc	ctgcagtccc	cacagggtgtg	tttgtggata	900
acatttgggg	agccctggcc	ttttggggtc	acggagggct	tggcctctca	cctcagagct	960
gcgaggagagc	cgcttctaca	tcaggacatc	agaagctgga	acaggatggc	cggcgagggg	1020
cctcttgttg	gggtcacaga	gatgggtcgc	agagatggcc	cgtctggaag	gtggattct	1080
caccccacct	ctgcccctag	atgtcctggt	gaccctcccc	tctgtagtct	tggttttttg	1140
caaaaacagt	atgacctcct	gccatactgg	gtactttgct	tatgtattgt	gtttactctt	1200
tactgtgtgt	ctctcctgct	aaggtctacg	aagaagggtc	tttgtgggtg	gggttcttag	1260
aggcatccca	agtaacagaa	gcagtccctg	gactaagggg	ctcaaaaaat	attttttatt	1320
tattattttt	tctttttgag	atggagtctc	gctctcttga	ccaggctgga	gtacagtggc	1380
acaatcttgg	ctcactgcag	ccttcgcctc	ctgggttcaa	gtgatttccg	gctaattttt	1440
gtattttttg	tagagacggg	gtttcaccat	gttggccagg	ctggttcaa	actcctgacc	1500
tcaagtgtac	cacccgcctc	agcctcccaa	catgctggga	ttatagacat	cagccaccat	1560
gcctggccaa	atatttgtca	aattgaattt	gtatttccat	acaaatttta	gtctggatga	1620
agtgttcat	gcctgtaatg	gaagctcttt	gagaggctga	ggtgggtgga	tggcttgagc	1680
ccaggagttt	gagaccagca	tggaaaacat	agagaaaccc	catctcaata	taagaagaag	1740
aagaaaaaga	aaaaaaaaat	caaaaaacga	aacaacacaa	attttagagt	aagtatttta	1800
agttccacaa	aaacctgggt	aggatttgga	tagcaatttc	tttagttcta	caaatacaat	1860
tggaaaaaat	taattaatct	gggaagaatt	cattttgagt	cttctaatacc	atgaacatgg	1920
tatctccatt	tgttttagacc	atctttaatg	cctactaata	acattttctgt	atagtgcct	1980
tgcacattat	tcttagattc	ttgatatttt	gtctatttat	gtctttttat	aaattttata	2040
tttccaacat	tgttgctaatt	atatagtaag	aaaatggaat	cttgccatag	gattttgaac	2100
ccaacaactt	tgtctaaactc	ctctgaatcc	tcagaatttc	cctgtggatt	atgtaggctc	2160
ttctgcatac	acaaccatat	catctgtgaa	taaagacagt	tttgttttct	tcttcacaaa	2220
ctttacccga	ctcactgtgc	agtctgccac	atccaggctg	atattgaata	gcagtggcac	2280
taataggatt	ctttgcccc	ttgccaatct	tgtaaagaaa	gctttcaaca	ttttcctggt	2340
agctctgttg	gcagctctga	ctttttccat	agatggcctt	catcagctta	acaatgggtc	2400
ttttcttccc	agagggctga	gcttttcctt	aagaacagac	agttagtgct	atcaaacact	2460
aggctgcatac	tgttgagatg	gtcatacaac	ttgtgtcttt	tcctgtgttt	gtgtgtgaac	2520
tctctgggtg	tctgagagtt	cttgtgactt	tcacagaaga	acacaattta	cctccgggtg	2580
tgggaagggg	aaggaagcag	aggaagaaag	accccaagtc	cccctcatcc	ccactgacct	2640
tcctgctggc	ttcgtccttg	atctgtgcct	ccttagatcc	tgcgtttgag	tacttgcggt	2700
catgatgaca	gggccaacct	cctgaccagg	gctgttagca	tctcccctgc	tgcccagagt	2760
ccctgctcca	aaccacttcc	ttcatcttct	gtacccccag	ccaatatttc	cctgccaggt	2820
gtcaaccacg	gcccagaacc	agaccacaag	ggacagcccc	ggaaccacga	atcagacaaa	2880
tcagcccgct	ccaagctgtc	tcccctgctc	tgcccggctt	tcacagggaa	gccaacacag	2940
gctgtggctt	ggcctttccc	tagctccttt	ctgcctcctg	gtctgcctgc	ggcttcccc	3000
tgccgccttg	cggggcctgc	cacgtctctc	atttctagt	aatgtttcaa	gagcgatgtt	3060
agactttcct	ttcaatagcg	ttgacctctg	ttaggcacct	ttatggatta	agacctgggc	3120
atagatggtt	tcttcggcat	cacgacctga	aggtgcttgg	gagagacggg	gaggaggaga	3180
atgcaccctg	ccatgctctg	caccgcacat	ggatgcggat	ttcaccatgt	tggccaggct	3240
ggtctgaaac	acacggagcc	caagcgcccc	gtggaccctc	tgacggctct	cgggcgtgtg	3300
cctttgtaag	cagagtattc	agctctcatc	agggcctcgc	cagagcagaa	atggctgtt	3360
gataaatgca	tcgtatacaa	ttataaatgt	gcacccagca	ttgctgcttc	ctcttttttt	3420
tttttgatat	agggacttgc	tctgtcgcgc	aggetgcagt	gcagttagggc	agtcacagct	3480
cactgggggc	tcaacctccc	aggctcaagc	aatccttccg	cctcagcctc	ctaagttagct	3540
ggaactacac	atccagcttt	tttttttttt	ttttttttgt	agacacagga	tctcaccatg	3600
ttggccaggc	tgggtcttaaa	ctcctgggct	caagtgatcc	gcccaccttg	ggctcccaga	3660
gtactggcat	tacagggtggg	agccactatg	cctggcctgc	ttccttttgc	aaacaggaat	3720
cttgtaaata	gaattgatca	gaacttgttg	tttaacgtac	acagacctctag	ctgtactg	3780
caaagctgtg	tgcacatgtg	ttaagtcac	tgttctatgt	gttctaatta	taaataagaa	3840

aaaacaaatt	tcaatcagcc	atgctggagg	aagagcaatt	atgtttctat	tccttctatc	3900
acaggtgatg	taaaattctc	aaacaatgag	atagataaaa	agtacgcagc	caaaaagttc	3960
aagaagaagt	gttatggaga	tgagcaggc	ccttcgtaaa	aacacgatgt	tggttttctg	4020
gattttgtat	gtttgctttt	tttttttcc	catcctaaat	aatattcac	tgtcatacct	4080
aa						4082

<210> 1894

<211> 4262

<212> DNA

<213> Homo sapiens

<400> 1894

agcgtcctgt	gagggagggg	ctgcaactgcc	actttactga	tgaggaaatt	aaggttcaga	60
gagatgaggt	catttggttag	aggccagaca	gcctcctcag	cccatctcta	agggtgttct	120
tgtggtatgt	gccataaagc	cataggttca	ttgatttgtt	cttaagtagt	tctgagtcct	180
tcctgcatat	caggcaggga	caaacgggaa	agtccttgcc	cttggcaagt	gcgggggaaa	240
tgaaatgatt	ctgctcagcc	tcattccattg	gtctgaacaa	tcacgtctca	tgaccccagg	300
gacacggcct	cccctgaacg	cggatccctag	aggccaggca	gaagcagcat	gggtttccac	360
tcacacggta	ggtggctgtg	cgatttctgc	tggagtcctc	gacccctcc	tcattccttc	420
cagggttgct	ctgaggccat	tcctcgtcat	ctaggagggg	tctacataaa	agcatttata	480
aacagctcca	aatggggagc	tgggcgcccc	acctttggag	cacttttctc	tactgcagat	540
ttatctactg	ctcgtgaaat	ctctggatgt	aactgtgatg	aaagaccgga	ggctgaagga	600
gaacttcaat	atcatatatt	ttaaagggtg	actcacagtt	tggaacaaga	attaaagaac	660
cacgaacttc	aaggtaaaac	gggcaatggc	gttgggcaag	cctctctgca	tctgtgtgtc	720
cagcctctcc	tgcgtgccag	aagtccccag	gcaggagtgt	ggtgggacat	ccggctgggg	780
taaggacagc	caccctccca	ctgtgtcagg	gcccagag	tggtgggaga	actctgcaag	840
agacctgtgc	aaggcgccct	tgtaggagcc	tgccgtcccc	acagggtgtt	tgtggataac	900
acttggggag	ccctggcctt	ttggggctac	ggagggtctg	gcctctcacc	tcagagctgc	960
agaggagacg	cttctacatc	aggacatcag	aagctggaac	gggatggcc	ggcgaggggc	1020
ctcttgttgg	ggtcacagag	atgggtcgca	gagatggccc	gtgtggaagg	ttggattctc	1080
acccaccttc	tgcccttaga	tgtcctgggt	accctccctt	ctgtagtctt	ggttttttgc	1140
aaaacactta	tgacctcctg	ccatactggg	tactttgctt	atgtattgtg	tttactcttt	1200
actgtgtgtc	tctcctgcta	aggtctacga	agaagggtct	ttgtgggtgg	ggttcttaga	1260
ggcatcccaa	gtaccagaag	cagtccttgg	actaaggggc	tcaagaaata	ttttttatgt	1320
attatttttt	ctttttgaga	tgcagtctct	ctctcttgcc	caggctggag	tacagtggca	1380
caatcttggc	tactgcagc	cttcgcctcc	tgggttcaag	tgatttcagg	ctaatttttg	1440
tatttttagt	agagacgggg	tttcaccatg	ttggccaggc	tggtcacgaa	ctcctgacct	1500
caagtgatec	acccgcctca	gcctcccagc	gtgctgggat	tatagacatg	agccaccatg	1560
cctggccaaa	tatttgtcaa	attgaatttg	tatttcata	caaattttag	tctggatgaa	1620
gtgcttcatt	cctgtaatcc	aagcattttg	agaggctgag	gcgggcagat	ggcttgagcc	1680
caggagtgtg	agaccagcct	ggaaaacaca	gagaaacccc	gtctcaatat	aagaagaaga	1740
agaaaaagaa	aaaaaaaaaa	tcaaaaacga	aaacaacaca	aatttttagag	taagtatttt	1800
aagttccaca	aaaacctggg	taggattttg	atagcaattt	ctttagttct	acaaaataat	1860
ttggaaaaaa	ttaattaatt	tggaagaagt	tcattttgag	tcttctaata	catgaacatg	1920
gtatctccat	ttgttttagac	catctttaat	gcctgctaata	aacatttctg	tatagtgacc	1980
ttgtacatta	ttcttagatt	cttgatattt	tgtgctatta	tgtcttttta	taaatttatt	2040
tttccaacat	tgttgctaata	atataagtaag	aaaatggaat	gttgccctatg	gattttgaac	2100
ccaacaactt	tgctaaactc	ctctgaatcc	tcagaatttc	cctgtggatt	atgtagactc	2160
ttctgcatac	acaaccatat	catctgtgaa	taaagacagt	tttgttttct	tcttcacaaa	2220
ctttacccaa	ctcactgtgc	agtctgccac	atccaggctg	atattgaatag	cagcggcac	2280
caataggtgt	ctttgtcccc	ttgccaatct	tgtaaagaaa	gctttcaaca	ttttctgtgt	2340
agctgtgtgt	gcagctctga	ctttttccat	agatggcctt	catcagctta	acaacgggtc	2400
ttttcttccc	agagggctga	gcttttccct	aagaacagac	agttagtgtc	atcaaact	2460
cggctgcata	tgttgagatg	gtcatacgac	ttgtgtcttt	tcctgtgttt	gtgtatgaac	2520
tctctctggg	tgtctgagag	ttcttgtgac	tttcacagaa	gaacacaatt	taccctccgg	2580
tgtgggaagg	ggaaggaggc	agaggaagaa	agacccaag	tccccctcat	ccccactgac	2640
cttcctgctg	gcttcgtcct	tgatttgtgc	ctccttagat	cctgggttg	actacttgcg	2700

gtcatgatga	cagggccaac	ctcctgacca	gggctgttgg	cacctcccct	cctgcccaga	2760
gcccctgctc	caaaccactt	cattcatctt	ctgtacccc	agccaatatt	tccttgccca	2820
gtgtcaaccc	aggcccagaa	ccagaccaca	agggacagcc	ccggaaccca	gaatcagaca	2880
aatcagccca	tcccaagctg	tctcccctgc	tctgcccggc	tttcccagga	agccaacaga	2940
ggctgtggct	tggcctttcc	ctcgtctcct	tctgcctcct	ggttgtgcgg	cttcccctcg	3000
ccctgcgggg	cctgccatgt	ctctcatttc	tagcgaatgt	ttccagagcg	atgttagact	3060
tccctttcaa	tagcgttgac	ctctgttagg	cacctttatg	gattaagacc	tgggcataga	3120
tggtttcttc	ggcatcacga	cctgaagggtg	cttgggagag	acggtgagga	ggagaatgca	3180
ccctgccatg	ctctgcaactg	cacatggatg	cagattttcc	atggttgcca	ggctggctcg	3240
aaacacacgg	agcccaagcg	cccgggtggac	tctctgacgg	tcctcgggcg	tgtgccattg	3300
taagcagagt	attcagctct	catcagggcc	tcgccagagc	agaaatggtc	tgttgataaa	3360
tgcacgtgat	acaattataa	atgtgcaccc	agcattgctg	cttcctcttt	ttttttgata	3420
tagggacttg	ctctgtcgcc	cagggtgcag	cgcagtaggg	cagtcacagc	tcactgcagc	3480
ctcaacctcc	cagctcaagc	aatccttcca	cctagcctc	ctgagtagct	ggaactacac	3540
atccagctat	tttttttttt	ttttggtaga	cacaggatct	caccatgttg	gccaggctgg	3600
tcttaaacctc	ctgcgctcaa	gtgatccgcc	caccttgggc	tcccaaagta	ctggcattac	3660
agggtgggagc	cactatgcct	ggcctgcttc	ctttcgcaaa	caggaatctt	gtaaatagaa	3720
ttgatcagaa	cttgtttgtt	aatgtacaca	gacctctagc	tgtactgcaa	agctgtgtgc	3780
acatgtgtta	agtcattctgt	tctatgtgtt	ctaattataa	ataagaaaaa	acaaatttca	3840
atcagccatg	ctggaggaag	agcaattatg	tttctattcc	ttctatcgta	ggtgatgtaa	3900
aatttcaaaa	caatgagata	gataaaaaat	acgcagccaa	aaagtgcagg	aagaagtgtt	3960
atggagatgg	agcaggccct	tcgtaaaaac	acgatgttgg	ttttctggat	tttgtatgtt	4020
tgcttttttt	ttttcctcat	cctaaagaaa	tattcactgt	cataccta	tttgtttttg	4080
taagtttgta	ttcttttctt	tataggagg	cctcacaaaa	cctggatcag	actcgcccac	4140
tgcctgtgt	ctgcccctcc	gacccccct	ccctgccag	cagggatgtg	ggtggcagtg	4200
gtgctgtgtg	gaggggtggcg	ggaggaccgg	gaagactgcg	accagtgagc	cgggaggcct	4260
tg						4262

<210> 1895

<211> 3471

<212> DNA

<213> Homo sapiens

<400> 1895

aggaagcttt	tataggaaaa	ggtctttctg	gtcacccca	tcccctccca	attcccagct	60
tctgatggaa	ttgagcaagg	ggtggggctt	agtcagactg	ctggagccag	cctctcgctt	120
gtcctaggat	tctctgccta	agcttaagga	cctggcattt	ctcaagaacc	agctggag	180
cctgcagcgg	cgtgtagaag	acgaagtcaa	cagtggagtg	ggccaggtaa	ggactgtccc	240
accccacccc	tgccttaggc	tttattgccc	aacatgctct	tgagagtgtt	aaatggatgg	300
tagagatttc	ttcagcaagt	gattattgag	ggcctattct	cagtcaccct	aaggacaatt	360
tttctgaatg	gcacatgaac	taatatctta	agtagtggtt	aagtaggtga	agagggagg	420
aaagaacatt	ccaggcagaa	cagcatatgt	aaaggccttg	tggtaggaag	tagcattata	480
aacatgaggg	gtgaaaggag	gtccatttgg	ctacagtagt	tggggagcat	gctaggaaat	540
gaggctggag	aaaccggcag	ggctaggggc	atctctgacc	ttgtgtggcg	gggagttct	600
atggttggag	ctttctgacc	ccagggttct	gagatttgtg	gatcagaact	gcttgggttct	660
ttttctggcc	ccagaacctt	gggaaaaatc	tggagaaaa	accacggttg	tccagggtga	720
ggaggagctg	gtggtggaat	gctctaattc	cagcttgagt	agcccctgga	cagtcaggaa	780
ggagcctagc	taagtttctt	tctgcatttt	tctctgcagg	atggctcgct	gttgtcctcc	840
ccgttctca	agggattcct	ggctggctat	gtggtggcca	aactgagggc	atcagcagta	900
ttgggctttg	ctgtgggcac	ctgcactggc	atctatgcgg	ctcaggcata	tgctgtgccc	960
aacgtggaga	agacattaag	ggactatttg	cagttgtctac	gcaagggcc	cgactagctc	1020
taggtgccat	ggaagaggca	ggatgagcag	ctcagccttc	aggtggagac	actttatctg	1080
gattccccag	ctgtcatcca	tttgctatct	ccaactttcc	tgccaccttc	atccttgccct	1140
cccttctctgc	agattgtgga	cagtagttcc	tcagcctgca	ccctggattc	cttcttcccc	1200
ttcctagctc	catgggactc	gccccaaagc	tgtggcttca	aggaccacca	gcccccttact	1260
cttcaagccc	tgactgtgga	gttggtagat	gcctctgata	ctcagtattc	tctctggcaa	1320
tgttccacgg	cttctccttc	ctgggagctg	gctccataac	ttgattttcc	ccaaacgtgt	1380

tgcaatccct	gctgcccctt	agccaccag	ggctcttggtgggtatgagt	gtagaggatg	1440
ggggtatgcc	aggcctgggc	cgtcccaggc	aggcccgctg	gaccctgatg	1500
ccactgccat	gtacggtgcc	catgccccat	tgctggcact	gtgccatgtg	1560
tgcccttccg	gccctcctca	gccgtgctgc	tgactgagct	gaccaagcta	1620
ccttctccct	tctggtaggc	tggaagcat	ggccccagg	gccccaccc	1680
ctgctccctt	cgcactatca	gccctgctct	atggcgctaa	caacaacctg	1740
ttcagcgtaa	catggacccc	agcacctacc	agggtgctgag	taatctcaag	1800
cagctgtgct	ctactgcctc	tgctccggc	accgctctc	tgtgcgtcag	1860
tgctgctgct	gatggctgcg	ggagcctgct	atgcagcagg	gggccttcaa	1920
acacccttcc	cagtccccct	ccagcagctg	ctgccagccc	catgcccctg	1980
cgctaggcct	gctgctcctc	attctgtact	gcctcatctc	aggcttgtcg	2040
cagagctgct	catgaagcga	cagcggtgc	ccctggcact	tcagaacctc	2100
cctttgggtg	cgttctgaat	ctaggctctg	atgctggcgg	cggctctggc	2160
tggaaggttt	ctcaggatgg	gcagcactcg	tggtgctgag	ccaggcacta	2220
tcatgtctgc	tgtcatgaag	catggcagca	gcatacacag	cctctttgtg	2280
cgctggtggt	caacgccgtg	ctctcagcag	tcctgctacg	gctgcagctc	2340
tcttcctggc	cacattgctc	attggcctgg	ccatgcgcct	gtactatggc	2400
ccctgacaac	ttccaccctg	attccggacc	ctgtagattg	ggcgccacca	2460
ctcccaggcc	ttcctccctc	tcccatcagc	agccctgtaa	caagtgcctt	2520
ctggagaagt	gagggcagcc	aggttattct	ctggaggttg	gtggatgaag	2580
aggagatgtg	aagtgtgggt	ttggttaagg	aaatgcttac	catccccac	2640
gttcttccag	actaaagaat	taaggtaaca	tcaataccta	ggcctgagaa	2700
ccttgttggg	cagctccctg	ccttgctctg	catgaacaga	gttgatgaaa	2760
ggcaacaagt	ggctttcctt	gcctacttta	gtcaccacagc	agagccactg	2820
gtccagccca	gccatggtgc	atgactcttc	cataagggat	cctcaccctt	2880
gcaagaaggc	ccagttgcc	cagattatac	aaccattacc	caaaccactc	2940
ctccagttcc	agcaatgcct	agagacatgc	tccctgccct	ctccacagtg	3000
cacctagcct	ttgttctgga	aacccagag	agggtgggc	ttgactcatc	3060
tagccctgg	gccctggctt	aagccgacac	tcctgacctc	tctgttcacc	3120
tcttgaagcc	cgctacccac	tctgaggctc	ctaggaggta	ccatgcttcc	3180
cctgcccctg	cctagcagtc	tcccagctcc	caacagcctg	gggaagctct	3240
acctgagacc	aggtacagga	aacctgtagc	tcaatcagtg	tctctttaactg	3300
ataagatcct	aataaagtct	tctaggctgt	agggtgggtc	ctacaaccac	3360
gtcttgtgtc	ttctgtctgc	gcaactcccc	tcaaacaatt	ttgttcctct	3420
gtatcttaat	tctgggataa	cttttagact	aagaaaaaat	tgttttctcc	3471

<210> 1896

<211> 539

<212> DNA

<213> Homo sapiens

<400> 1896

ggcggatgac	aaggtagagt	gccgtggggg	tgatctgcag	ccgggcgtgg	tcttcactct	60
ccttgacctt	tttagttccg	gggagaagcg	actctggagc	ggctcaggag	tgaggatgtc	120
ccttgtttct	tctgcggtc	ctgtcaactg	cctcaacagt	gtggagtgt	gtggggagag	180
cattcggcga	ggcgggagga	gccgtggatc	ccccagatgt	cccctcctgg	gaaccatcac	240
gaacccgtta	ctagcacaga	ctcaaaaaca	ttcaccctta	aacactcctc	actttacccc	300
attccctagc	tcccgaatt	ttcttcccag	tgacacgatg	tttccaatca	cacggacact	360
cacaccaccc	tcattcaaac	actcctttgc	atacactctg	aatttcatac	ttatatgcga	420
tcaaaatcac	tcagtccatt	tacttacaca	cttgccgaca	gtcttttttg	tcattctcag	480
tcacatccag	tcactcacat	tcagtttggg	atgtccttgg	gaagaaagag	gtaaaagccc	539

<210> 1897

<211> 5536

<212> DNA

<213> Homo sapiens

<400> 1897

cgggacggcg	agaggcacgc	ggcgggaggg	gaccggaate	ccgcagctcc	ggccgcgcca	60
tggacggcaa	cgacaacgtg	accctgctct	tcgcccctct	gctgcgggac	aactacaccc	120
tggcgcccaa	tgccagcagc	ctgggcccgc	gcacgaacct	cgccctcgcc	cctgcctcca	180
gcgcccggcc	cgccctgggc	tcagcctcgg	gccggtaccg	agcttcggct	tcagcccggc	240
cccactccga	ccccggagcc	cacgaccagc	ggcctcgccg	gcggcgccgc	gagccacggc	300
ccttccccgt	tcctctggcc	ctgggcccgc	cacgcgctcc	cgcttctggg	cacgcgcgtg	360
aaccacgggc	tgaacgtggt	cgtggggcgc	gcctgtgcat	caccatgctg	ggcctgggct	420
gcacggtgga	cgtgaaccac	ttcggggcgc	acgtccgtcg	gcccgtggcg	gcgctgctgg	480
cagctctgcc	agttcggcct	cctgccgctg	ctggccttcc	tgctggccct	cgccctcaag	540
ctggacgagg	tggccgcgct	gggctgctcc	tgtgtggctg	ctgtcccggc	ggcaatctct	600
ccaatcttat	gtccctgctg	gttgacggcg	acatgaacct	caggtacgga	tctgtctatt	660
ccttgggcat	ctgtctcatc	ccagacgcgc	gtttacggcc	gtgggctcac	gacgaaggac	720
agaggcagtg	gaggggttgg	aattaggcgt	ggaggaagga	ggagaaaagg	agaggaagtt	780
gatgacggcc	cggcttttaga	agtcaaggcc	gacdgacagg	ttgtgctgct	aggggagcaa	840
gctagacggc	gagggagctg	ctccaaggct	gggattccat	gcgcagcgcg	gcccttcagc	900
aggggtccctc	gccgtccctc	ccgagcgtcg	gggtggcagc	gcaggtcgtt	gtccagtggg	960
agacaaaagag	aagggggagt	ctgaactaga	actcgccggc	aacgtaaaag	taaaataggg	1020
ctactggccc	gtcagagaaa	gtaatctcac	atagagtgca	ggattgttga	gtccgaccaa	1080
caagtagcag	tcagcagctt	taccatggct	taccttgtag	ggggcttgca	aggaagaacg	1140
ttccttcccc	tcagaatcat	ccaggctcaa	tagactttat	aatgtcgagg	gcagcagtag	1200
cgagacaggg	ggcttggttt	tcctccctcg	cttgggttca	taattccatc	ggtgttagac	1260
gtgctgctct	cttggcactc	tcctcggatg	taggttctgc	ccagacttca	accccgggac	1320
ttgcagtctc	cccgttccac	ctctactcaa	catacaagaa	aaaggttagc	tggtgtgttg	1380
actcaaagct	cgttctgatt	tctgcacatt	cccttttctg	cagcatcatc	atgaccatct	1440
cctccacgct	tctggccctc	gtcttgatgc	ccctgtgcct	gtggatctac	agctgggctt	1500
ggatcaacac	ccctactgtg	cagttactac	ccttagggac	cgtgaccctg	actctctgca	1560
gcactctcat	acctatcggg	ttgggcgtct	tcattcgcta	caaatacagc	cgggtggctg	1620
actacattgt	gaaggtaagg	ccctctcttc	cctttccata	ctagcttgga	gagcccttga	1680
tctctgaccc	acagcagaaa	tgtaggaag	tttgagaag	gcggaaagga	agaaaaggac	1740
ttggaagtag	ttgcatggat	aaaatttttt	ttaaaaagtt	tatgtacaaa	agataacttc	1800
cacttttggg	attcctagaa	tgacagcttt	aattaagaca	cagcttaatc	aaaacagca	1860
taagagaact	atcagtactc	attggaagga	aacagatcat	agcagggtgg	ggaagatgac	1920
agtgaattta	aatggcaaca	tattttccac	taattgtata	taattaaaca	taaaagcaga	1980
ttaaataaaa	ttactttaat	agaatttggt	cagtatttta	gaaatgcatg	gctatctttt	2040
caaaaatgga	actctaattc	tgagaaactc	tgtagtaggt	tcctttaaca	ttttattaaa	2100
tttttaaaa	taagttgata	ctaataggac	aaaaagtaat	ggaaaagtta	cattgtagta	2160
atagaacaca	caaaaatattg	gctttaaagc	acaaaataaa	attgggtcct	ggataaataa	2220
tggaggttat	gttgacctta	ctaaatgtgt	ttctttttct	ttctccatg	caatatttta	2280
tatggcttat	aaagctagt	aaaagatagg	ggatttctat	aatttgtgca	atatctctcc	2340
taaggctttg	attttttaaa	aaatgaatgc	tttctgtagc	agtagagatt	ttaatagttt	2400
agtagattct	agtagttgac	tggaggaaaa	aaaatctttg	caaaaattaag	ctgtctttga	2460
aaattcaaaa	acagtagcaa	aaaagaataa	accatgacca	ggatgctgac	ttcaggtaat	2520
taatcaataa	aaatacgtaa	ctattactgc	aaaatgcaca	ggcaaattcc	tttagacaaa	2580
tgaagagaaa	aagagccacc	ctaattgttc	aattatgtag	attcaagaag	acataatctt	2640
ttgttttact	tattttctaa	agtaatttga	ttatatagag	tcgcttttta	ttaatatgaa	2700
aagtagagag	ttcttttctg	tgcatatatc	caggcttgag	taaaagaaat	cctgctccat	2760
aatacacatg	tatatgtgaa	tgtaaaaaatg	tatgtgtaca	tgtaaatatg	catatatata	2820
tacctgtaat	atatactcat	agatactctt	gagatgcatt	aagaacttgt	taatcttaat	2880
cattaagcta	atgctattaa	tgtgatggca	tttactataa	aaccttagga	agtctaagag	2940
aaagtcaatc	aatgaccta	tttacacacc	caaaaacaaga	aatatatatta	aaataaatat	3000
attaataaat	taatatattt	aatatttttaa	tataatagac	ataagattag	ctacctttga	3060
atttaagggt	aaactagccc	tattcttttaa	ttaaacact	attaagaaac	ggtttatata	3120
attgttacac	ctttgcaaac	acttcaaaat	gagcattcaa	tgtcaatgct	tgcccaaatg	3180
atttaaaata	gttctaagg	actttggagc	caatatattca	aaatgaagaa	atcagactgt	3240
ttgtcagcgc	tttcaatgtg	acatactttg	aaatggtatg	cttttacctg	taatagcctg	3300
gtttctgcca	attatgcata	tgtagtatct	gtaccttata	taataattat	tgcagcatcc	3360

tctagggtag	aatttgtgac	cagctcagat	aaatttttaa	taatttttta	agagtgtaga	3420
gttacgccat	tcccgaagac	tgcaaaaggg	atatcccagc	tatccaggga	accagaagca	3480
acatttaagc	tgttctctct	ggctctagtt	tctttccct	gccactcct	cattaaaaaa	3540
aaataagtta	actaccaata	tgaaggagaa	cgaggagagg	aattttttaga	tttccgcctt	3600
acaattcata	cagactgttt	tatttgaatg	agtgaatgt	accagtcaga	acatcaagat	3660
gacacgtttt	atacagaagt	cagttgtact	gtatccgaaa	tccatctatt	gtaataatac	3720
gtaagcatca	ttacagactt	atagatggga	ggtttctcat	gaacaaaata	aaaaggggaa	3780
agttgccaaa	ttgcaaagaa	ttcttcacat	atttattttac	atttttctct	cttacataat	3840
ctaagagtag	gtaattgttt	caatattgca	agcaatcctc	tgcagtatat	tttgagggtt	3900
aaaaagatca	cacactgagc	ttcagaatt	ttaatcaagt	ttcacaagtt	ttaaactcatg	3960
taaaatgaga	actaatttct	tatggaaaac	acgggggttca	gttcaggga	agtaaacatc	4020
cacttgctctg	ctctgatgat	cagaccatac	ctgggggtatt	aggttcagtt	ctaaatgccc	4080
tgtttttaag	aggcacattc	acatatgaaa	cacattctca	gaacagtcag	gataccama	4140
caaaagttatg	tgatggaggt	ttaagtttgg	ggatgatctg	cctgaagaag	agtagccttc	4200
ccctgataac	cagtttttaa	gcttttgaag	agctgttttt	caggaaaaaa	gcttttgaag	4260
gctatttttt	tttgaagagc	tttttttttt	tttttttttt	tttttttttt	tggtgaaatg	4320
gagtgttgct	ctgtcaccca	ggctggagtg	cagtggcgcg	atctctgctc	actgcaacct	4380
ccacctccca	ggttcaagca	attctctgcc	tcagcatccc	gagtagctgg	gattacaggc	4440
attcaccatc	acacctggct	aatttttcta	tttttagtag	agacagtgtt	tcaccatctt	4500
ggccagcctg	gtcttcaact	cctgacctca	tgatccaccc	accttagcct	ccaaagtgc	4560
tgggattaca	ggtgtgagcc	accgcgcctg	gccagaaaag	ctgggttttt	ttgtttgttt	4620
tttgtttttg	aagagctggg	ctctgtcgct	cctgagagcc	tatatccaac	tcaatggcta	4680
gaggttatag	aaggcaaatt	gtccctggac	ataaggacag	gcctccaaac	aatcagagct	4740
gcccgaatgtg	gctctggatg	cttctgaag	agggtggcctg	cccattctca	gaaatattct	4800
gtcaaaggctc	tccattttgt	gttgagagc	atactagatg	gggtgtttct	tccgtgagct	4860
taggattctc	tcgcctgagt	tcactctcaa	ccatctcatt	gtaattttct	attactaggt	4920
ttccctgtgg	tcctctgtag	tgactctggt	ggctcctttc	ataatgacg	gcactatggt	4980
aggacctgaa	ctgctggcaa	gtatccctgc	agctgtttat	gtgatagcaa	tttttatgcc	5040
tttggcagcg	tacgcttcag	gttatgggtt	agctactctc	ttccatcttc	cacccaactg	5100
caagaggact	gtatgtctgg	aaacaggtag	tcagaatgtg	cagctctgta	cagccattct	5160
aaaactggcc	tttccaccgc	aattcatagg	aagcatgtac	atgtttcctt	tgctgtatgc	5220
acttttccag	tctgcagaag	cggggatttt	tgttttaatc	tataaaatgt	atggaagtga	5280
aatgttgac	aagcgagatc	ctctagatga	agatgaagat	acagatatatt	cttataaaaa	5340
actaaaagaa	gaggaaatgg	cagacacttc	ctatggcaca	ggaaagcag	aaaatataat	5400
aatgatggaa	accgctcaga	cttctctcta	aatgtggaga	tacacaggag	cttctatctt	5460
gctgaaatat	tgcttcatat	ttatagcctg	tggtagtga	catggttaac	ataaaagata	5520
acactgggttc	acatca					5536

<210> 1898

<211> 6717

<212> DNA

<213> Homo sapiens

<400> 1898

cctcccagtc	tgaggctgca	tcctccatta	ccatgcacct	tcctgtgggc	tgggaggcca	60
ggctcctttc	tgcccagcga	tgctcagcgt	tcctcagggg	ccaggcactc	atcaggagaa	120
aggaactaat	tacttgagta	atttgccctg	ccttgctgag	aggagtgtgc	cctgagggac	180
tccatgtgag	tgtggtgacg	ggtgtggggg	tgctccctgtg	ttatttttaa	atgggtgcct	240
tcaggacgat	gagcatgtga	ccatttcttc	tctattttcca	tcacaagagt	attatgggat	300
gagggtctca	ggttagatta	tcctcccaag	actcttctct	cttccttctc	tactggaagc	360
ccacatagca	tttcccttatg	gcttgaggga	gaggttcgga	gccacttaca	aattagataa	420
agtacattta	caatcttgta	caaagccaca	caatgaagtc	atttttctca	gctttttttt	480
tttttttttt	tttttttttt	agcctgagtc	tcgctctatc	gtccagactg	gagtgcagtg	540
gcgcgatctt	gcttcaactga	aacctctgcc	tcagggttc	aagagattct	catacctcag	600
cctcctgagt	agctgggatt	acagacatgc	accactatgc	ctggctaatt	tttggatttt	660
tagtagagac	cgggtttcac	cctgttggcc	aggtgtgtct	cgaacccttg	acctcaagtg	720
atcttcccgc	ctgggcctcc	caaagtgtctg	ggattatagg	tgtgagccac	agtgccagc	780

cttgtttttg	tttttgtttt	gttttgacag	tctgtcactc	tgtcaccag	gctggagtgc	840
agtgggtgca	tctcacctca	cttcagcctc	tgccctccag	gttcaagtga	ttctcctgtc	900
tcagcctcct	gagtagctgg	gattacaggc	gtgccaccac	gcccagctat	ttttgttaatt	960
tcattaaaga	caggggtttcc	ccatgttgg	gaggctggtc	ttgaactcct	ggcctcaagt	1020
gatccacctg	cttcagcctc	ccaaagtgca	gggattacag	gcatgagcca	ctgtgcctgg	1080
cctcagctat	cttgaatgct	ggagaattaa	atccttttct	gtctagggtg	tcagctccct	1140
aagggtcggg	ccaaaacagt	tggtttata	agacactaga	gtcttgccctc	agtagctcc	1200
ttgaattctg	caactgaattg	atcagtttct	tggcccaaag	taaaactcaga	tggcagccca	1260
agagccactc	tgcagtgcct	tctttcacat	ggctcatcatg	ctctctgatac	cctcagggttc	1320
tgtctaagcc	tcattgtttta	tgaccgtgct	gttctcagcc	cacctcacc	tgccccatgc	1380
cttctcaatg	gtttgtttcac	ctgaattccc	cagatttcat	gccagtatcc	ccaaggttcc	1440
ttgacctctt	ggtgtaagca	ttcagcatct	aaaattcatt	ttattcccgt	caacgcattt	1500
ctaactgtag	aacaagaatt	ataaatgaca	aagctcatag	aaaattggca	ccttgtcttc	1560
ccctccctc	ttattttata	cataaaaag	aatatgggct	gggcattgtg	gcaaggctg	1620
ggcatgatag	ctcatacttg	taatccagca	ctttgggagg	gtgaggcaga	tggatcacct	1680
gaggtcagga	gttcaagacc	agcctggcca	acatggtgaa	acctcatctc	tactaaaatt	1740
acaaaaaaa	aattagctag	gcatgggtggc	agatgcctgt	aatccagcta	ctcaggaggc	1800
tgatgaagga	gaatcacttg	aacctgggag	gcagagggtg	tagagagcca	agatggcgct	1860
actgcactcc	aacctgggag	aaagagagca	agactccgtc	tcaaaaaaaa	aaaagacaaa	1920
aattagccag	gcatgggtgg	gccacctgta	gtcccagctg	cttgggagcc	taaggcagga	1980
gaatcggtttt	gacctgggag	taggagggtg	cggtaaccga	gattgtgca	ctgcacttga	2040
gcctgggcaa	cagagtggaga	ctctgtctca	aaacaataag	aacaacagca	acaaaagaga	2100
gagaccatgc	cttgtctccag	gtctcttagc	tattgaagat	gtacctggac	ccaggtctcc	2160
ggtcttctag	ttgaagcaat	tgtactgcct	tacaaagtca	cattctcttt	ggtgcttttt	2220
gattgacgta	tttatccaac	tagaaaagta	ctcatgccct	catccaaaaa	tgtggtagag	2280
gccagattag	tgctggtagg	aataagagat	ataacctttg	gctttggaac	cacaagcatt	2340
agcagtctcc	atgttcttta	aagacttggt	gatattggta	tttaggctgg	acaccatgca	2400
aagactacac	aggctcgggt	cctgcacgca	gagaagttat	caagagata	tgaccaggcc	2460
ggaatagaat	gctcagacca	cgtggaggct	gttaaacttt	tacataatct	agggaaagaa	2520
gggacacaag	gtggcattag	tctagggtca	gggtgggaaa	ggttatgctg	aaaagtctct	2580
gcagctcagg	acagctttgt	gcaaagaact	gaagttcaca	gctgctagtg	cctgggagat	2640
caaatagtat	aaatgagggc	agacaacctt	gaggggcaga	tggagctttc	cagacaatct	2700
tggcatgagg	atgagtgaat	ttcaaactag	tccctgccag	gcagatggct	tcctccagct	2760
ctgcttactg	aatgcgaagt	cacagtcagt	aagaaaaactg	gttttcttct	tcccaggcgc	2820
tgccccatac	ctgaagacca	agtttatctg	tgtgacacg	taagtggctt	cctttccccc	2880
ttttgccttc	atttctaata	tcctcagtta	tccttgggaa	tgggacactg	ggtgagagtt	2940
aatctgccaa	aggttggaag	cccctgggct	atgttttagta	ctcaaagtga	ccttgtgtgt	3000
ttaaaaagct	tgagctttta	tttttctgtt	ggagaccaga	gtttgatggc	ttgtgtgtgt	3060
gtgtttttgt	cttttttttt	tttccattgt	gtcttgtcaa	ccccccgttt	cccctctctc	3120
tgcccccat	ttcctacaga	acgacctgca	gcaataccat	tgacctgccg	atgtcccccc	3180
gcactttaga	ttcattgatg	cagtttgtaa	ataatgggtga	aggtgctgaa	ccctcagcag	3240
gagggcagtt	tggtgagtat	ttggttgaca	actttgtcc	ctataaggga	agttgggtccc	3300
ctttgtgtga	tgctctcaca	tgtacacacc	gagagctggt	cactcggaat	ggtaggagat	3360
tctagagctt	tgctttccaa	aagagatggt	atgaatgcc	catgtgtgag	tataaatctt	3420
ctagcagcca	cactggaaat	agacgaactt	aattttttaca	atatatttta	tttaaccac	3480
taaatccaac	atactctcaa	tttaacattt	cagaaaaagt	tgaggctggg	tgagtggctc	3540
atgcctgtaa	tcccagcact	ttgggaggcc	gaggtgggtg	gatcacttga	ggtcaggagt	3600
tcgagaccag	tctgaccaa	atctctaaaa	tataaaaaatt	agctgggcat	ggtggcgcat	3660
acctgtaatc	ccagctactc	aagaagtga	ggtgggagga	tcgcttgagc	ctgggaggtg	3720
gaggttgtag	tgagcagaga	tcgtgccact	gcactccagc	ctgggcgaca	gagtgagact	3780
ccatctcaaa	taaacaaaa	taaaactaaa	agaaaaagtt	gagacctttt	tttattcttt	3840
tttttcatac	taagccttta	aaatccagtg	ggcttttgac	agccacagca	cagctgatt	3900
tggacaaaac	aaatctcaaa	tgcttggtgg	ccacgtgtgt	ctcggggctc	ctgaattaaa	3960
cagtagatca	agggcagaag	atctcaggac	agccttagag	cttctgtaaa	catggagctc	4020
tgggaatcag	ttaagggtggg	aatgagaaa	gaccttccc	gaggcagggt	cctccaggga	4080
ggagggtaaa	tctggctttt	ctgaccatcc	ctgggcctta	aggggcagga	gattggatag	4140
cagtggtagc	ctgggccctg	tcctctgaag	ggctgggggc	gtggcctgcc	agttgcagag	4200

ggtggacaac	tgaactagtt	ttccctgtct	gtccctccag	agtcctcac	ctttgacatg	4260
gagttgacct	cggagtgcgc	tacctcccc	atgtgaggag	ctgagaacgg	agctgcaga	4320
aagatacgac	tgaggcgcc	acctgcattc	tgccaccct	cacacagcca	aaccccagat	4380
catctgaaac	tactaaacttt	gtggttccag	atTTTTTTta	atctcctact	tctgctatct	4440
ttgagcaatc	tgggcacttt	taaaaataga	gaaatgagtg	aatgtgggtg	atctgctttt	4500
atctaaatgc	aaataaggat	gtgttctctg	agacccatga	tcaggggatg	tggcgggggg	4560
tggctagagg	gagaaaaagg	aaatgtcttg	tgttgTTTTg	ttccctgcc	ctcctttctc	4620
agcagctttt	tgttattggt	gttgttggtc	ttagacaagt	gcctcctggt	gcctgcggca	4680
tccttctgcc	tgtttctgta	agcaaatgcc	acaggccacc	tatagtaca	tactcctggc	4740
attgcacttt	ttaaccttgc	tgacatccaa	atagaagata	ggactatcta	agccctaggt	4800
ttcttttttaa	attaagaaat	aataacaatt	aaagggcaaa	aaacactgta	tcagcatagc	4860
ctttctgtat	ttaagaaact	taagcagccg	ggcatggtgg	ctcacgcctg	taatcccagc	4920
actttggggag	gccgagggcg	atcataaggt	caggagatca	agaccatcct	ggctaacacg	4980
gtgaaacccc	gtctctacta	aaagtacaaa	aaattagctg	ggtgtggtgg	tgggcgcctg	5040
tagtcccagc	tactcgggag	gctgaggcag	gagaatcgct	tgaacctgag	aggcggaggt	5100
tgcaagtgagc	caaaattgca	ccactgcaca	ctgactccat	cctggggcga	cagtctgaga	5160
ctctgtctca	aaaaaaaaaa	aaaaaaaaag	aaacttcagt	taacagcctc	cttggtgctt	5220
taagcattca	gcttccttca	ggctggtaat	ttatataatc	cctgaaacgg	gcttcagggtc	5280
aaacccttaa	gacatctgaa	gctgcaacct	ggcctttggt	gttgaaatag	gaaggtttaa	5340
ggagaatcta	agcatttttag	actttttttt	ataaatagac	ttattttcct	ttgtaatgta	5400
ttggcctttt	agttagtaag	gctgggcaga	gggtgcttac	aaccttgact	ccctttctcc	5460
ctggacttga	tctgtgtttt	cagaggctag	gtgtttctg	tgggtgcctt	atcagggtctg	5520
ggatacttct	gattctggct	tccttctctg	cccacctcc	cgaccccgag	ccccctgac	5580
ctgctagagg	catgtctcct	tgctgtctca	aaggccctc	atcctgtttg	tttttaggaat	5640
cctggtctca	ggacctcatg	gaagaagagg	gggagagagt	tacaggttgg	acatgatgca	5700
cactatgggg	ccccagcgac	gtgtctgggt	gagctcaggg	aatatgggtc	ttagccagtt	5760
tcttggtgat	atccagtggc	acttgtaatg	gcgtcttcac	tcagttcatg	cagggcaaaag	5820
gcttactgat	aaacttgagt	ctgccctcgt	atgagggtgt	atacctggcc	tcctctgag	5880
gctggtgact	cctccctgct	ggggcccccac	aggtgaggca	gaacagctag	agggcctccc	5940
cgctgccc	ccttggtctg	ctagctcgcc	tctcctgtgc	gtatgggaac	acctagcacg	6000
tgtctggatg	gctgcctctg	actcagaggc	atggccggat	ttggcaactc	aaaaccacct	6060
tgccctcagct	gatcagagtt	tctgtggaat	tctgtttgtt	aatcaaat	agctgggtctc	6120
tgaattaaag	gggagacgac	cttctctaag	atgaacaggg	ttcgcccag	tcctcctgcc	6180
tggagacagt	tgatgtgtca	tgcagagctc	ttacttctcc	agcaacactc	ttcagtagcat	6240
aataagctta	actgataaac	agaatattta	gaaaggtgag	acttgggctt	accattgggt	6300
ttaaatcata	gggacctagg	gcgaggggtc	agggcttctc	tggagcagat	attgtcaagt	6360
tcattggcctt	aggtagcatg	tatdgggtct	taactctgat	tgtagcaaaa	gttctgagag	6420
gagctgagcc	ctgttgtggc	ccattaaaga	acagggtcct	caggccctgc	ccgcttctctg	6480
tcactgccc	cctcccatc	cccagcccag	ccgagggaat	ccgtgggtt	gcttacctac	6540
ctataagggtg	gtttataagc	tgctgtcctg	gccactgcat	tcaaattcca	atgtgactt	6600
catagtgtaa	aaatttatat	tattgtgagg	ttttttgtct	tttttttttt	tttttttttt	6660
tggatatattg	ctgtatctac	tttaacttcc	agaaataaac	gttatatag	aaccgtc	6717

<210> 1899

<211> 418

<212> DNA

<213> Homo sapiens

<400> 1899

aaaggtgtca	gagtggaggc	ctccctcccc	ggccccctcc	tacccccag	agcggcctcg	60
tcctgtctgg	ggtcagataa	gccacctaag	cggggtgggg	ggtagatact	cccaccgcac	120
caaggcctcc	ccttccacag	ttggctcctt	tatcactttc	ccttcagttc	accagcggg	180
gacaacacgc	agacaccgg	tggtggctgc	agggccccc	gcagccagcg	gtgtaatgc	240
agggaaaggc	gccccaacct	cagctacgcg	ggcgcccaca	gggttctctc	ccaccctac	300
acgtgcccga	gcgcccctga	gaccgcgcct	gggagctacg	agcagcacc	ttccctcgca	360
gagatggatc	agattagccc	cctggggcgg	tggcacctgc	ccgtcccctc	cctcctc	418

<210> 1900
 <211> 4126
 <212> DNA
 <213> Homo sapiens

<400> 1900

tgcagtgcag	agttccttta	tttgggggca	gtgcccaggc	cagttggtgg	aaagaggcag	60
gcatacaacc	cactgtcagg	ctggggggcc	cagcaggggc	gatggaggag	acgaggtggt	120
tgagggattt	tctcagctgc	aggttccagg	cccaggacag	gaggagatgtc	caggcatcag	180
acactgagcc	tgcttggtgc	ccgcaggagc	caaaaactgg	cggccagagt	ttttcccgcc	240
cccgccccc	gcttaccac	aaaggtgccc	agaggccacc	ctctgcatcc	tcctttcccc	300
tcaggatgga	gtccaggccc	aaaggggtca	gattctgcag	aggccaaaga	ggacactcag	360
gaaggtgaca	ctgctcagc	cagccaagga	ccccctgcct	cgagaggagg	cagcagagga	420
agagcaaca	ctttaacaca	ggctgtggcg	acccgcccga	cagcacacac	ggcacacaga	480
gggcctcagg	cacagctccc	cttctcagag	caaaaaccaa	ctagacacaa	ggcccagctc	540
ctgcccacag	ccacagaaac	gcggggccca	ggcttgccctg	ggctgcacc	tactggttct	600
cttcctgct	ggcagcatga	agggaaaaga	cacaggaggg	ctcagctggg	ctcctagact	660
ggcccaggct	gagtcctggt	cccagccaac	atctgacaaa	ggaaacaccc	caactggagg	720
agacaaaagg	ggtgtggctc	acatggagca	cgctgtcacc	gtcctgaggg	cttgcccatg	780
gagaagacag	caccctgggt	actgaagggg	aacgggtggg	caggaaccag	gaggtgagct	840
gggactcagg	tacttgctgc	tggccaggtg	ctcacagcgt	ctggtaggtg	ctgtccttgg	900
ccttgaggaa	gtgcagcaca	aagaaagcca	ccgcctgtag	gctcaacacc	agcacgacac	960
ctccgataaa	gctggccccg	tcaaattccag	ggctgtgggc	ctcagggact	ggggggctcc	1020
ctgcaggggt	gagggcaggg	aggggtcata	gcagtcactg	tgaaccagga	tcccagtcct	1080
accctcataa	ctggcacaa	taacctggag	gccccgggtc	tcaatatggg	gtgcttaaac	1140
cctgggctcc	gtttagtcca	gatcccgag	gcagttggga	agcgcctggt	gggaggaaca	1200
gtggcaggg	aggggtgggt	gctgtccagc	cctggtctctg	ctcctggctt	gctctgtggc	1260
ttttatgcca	cccacattct	ctctgggcct	catgatcaca	tgggtccaatt	ggtggcttgg	1320
accagtgact	gggctccccc	cctccctggg	cctcaccagc	ccaatagggt	gaagacagag	1380
ccagaactca	gaccctcccc	tgctcacaat	tcccttcagc	cttggacctc	aggggtcaga	1440
gccaagatgc	agacgatata	gtcccttttc	aggactccta	agccctaaga	cctcagtgtc	1500
acccaatgtc	agagccctca	gagagggaag	gagcaggggg	agaagtggag	gccccaaactg	1560
tcacctgtct	aagtggttaa	gcgaggactg	gacagtgtgt	gtcaggggga	acatggctga	1620
gggacaggct	tggccaaagt	cacctcacag	gacatagcca	gactcacaca	gggtcccctg	1680
accatctcct	ctgccccctta	gaaggtaggg	cttttagggcc	atgggttgcca	ggctatgcct	1740
gggtggctcc	cagctgtgcc	acggtacctg	tccactccta	gcagggattt	gatttcaggc	1800
cctgggctgg	gtgcccagaa	cagggcaggg	ctgggtgatg	gaagatcatt	ctgggacagt	1860
ggaaaggggc	ccagcctgaa	ctgggtctcc	ctcccagaag	gtgtaagggg	tggaaaggagt	1920
ctgacaatat	gaagggcaaa	cagtggctcc	agctcccgtc	cagggagccc	cagagaagga	1980
agctggggga	tgaggagcag	aagaggggag	aaatgagcca	catgaggctg	atccggggct	2040
ccagctgagg	gagctgagcc	atcaataatt	cagctctctga	gatcggtttc	tggctttaat	2100
taaccaaggg	cctcttcagc	catccctgcc	aagtctggtg	acctccagcc	cctgagaggg	2160
agtgggaagc	aaaggggtgg	attcttgctc	ctactccgcc	aggaaccggc	cttgtgacct	2220
tctctggggc	tggaggggtg	agtaggcagg	cactgaggat	gtctcctgag	caactcgagc	2280
cacacaccct	cacctccaag	gacaagtccc	gaggagtga	cttgagttcc	cagaactggc	2340
aatggggagg	agggatggga	actgtcattt	cttgattgcc	ttcagtga	cagacactga	2400
agtgggcact	gtacagcttc	tcataaaaacc	tgcagagcaa	ctctatgaga	aaggatcat	2460
ccaaccatt	tcacagatgc	ggagacaggc	tccgagggag	aaggcgcagg	gccgagggtca	2520
cagagcatgt	cagtgcctga	gcccagagct	gtcttcccct	gcacctctgc	tcctcccact	2580
gccccgtctc	cagggagtag	tcacctgttg	tgactgtctt	cggttcatag	gtggggtggt	2640
ggtgagcagc	tgaggagaca	ggtgatccat	agcaaagcag	ccttcccacc	ccctgactcc	2700
catcaagacc	ccagccccc	ctcaccgcta	aacttccgat	tcagatgcag	ccctgtccct	2760
actctagaca	tccaacatac	ttgcaagccc	cacacagttc	cctccaccag	atgtgctctc	2820
tctccatctc	taccttcag	gtcattact	gatgccacct	cctccagga	gcactccctc	2880
tcattccctc	tgaacttcca	aagtccttgc	tatgccttaa	actagaagaa	gagctaacac	2940
tcccatcccc	tccacacacc	tgtactaatt	ttcagatgag	gaaataggca	gagagaggag	3000
gggacttctc	agtgaagctaa	aggcagaact	gataccgggc	ccaggtatgg	gtgagcaaaa	3060

tccaccgcct gagagaggct gtttcctcct ggggggcagg ctatggctgg ggagacccat 3120
gcaacttggc ttaggtgcaa gaacccccctt acctggacat gcctctgagc ggttgtagat 3180
ggagcaacct tccttgacca cctcagattg ggccacacag tgtcctggtg agagaagggtg 3240
caggggggag gtttggggag agggggccagg gccttggggt tcgagctgg gggcactcaa 3300
tctggggag gctcagctcc atacctggct cctctggccg gcaactgtcc cacatgcagc 3360
tggagagatt gcgcgtctg tctccctcca cgcagtgtc acagacctcc agctgtttgc 3420
aggccccctg gaccgccggc cagatattca ggcgatcag ggctccccct ccaaagcctc 3480
gagctccttt acctggtagt gcggtggagt gggaaggag aattcctcga agccaagctg 3540
tggcaccgc ccacctccc acccaacct ccggtggccc tcgccccctc gcacacatct 3600
gggctctcac actcaccctt ggatcccaa gcccagcgc acacctggag ctccacagc 3660
agaggtctac acacacctag agcctcccca cattacca gagccccctc ctttgcatat 3720
acccggggtt cccagattca gttggagcca cctccccag accacctgaa gctccctagg 3780
ccccacacc tggggcctat atttacacac agggctccac acagagctgg agccccctc 3840
cccacccctg gaggcctgca cttggccgga aagccccctc ccctcaagcc caggctgtc 3900
ctggggagac ggctggctga ggtgcaagct ccatccgtcc ccgtcgagcc cctagccaga 3960
ccctgccgcg agttaccagc cacagccagc tgggcacata ggaggaggca gcaacagccg 4020
ccacagagcg cagtccgcaa ggcgcgggt cccggagcct ccatgggctc gcggggtggg 4080
ggtggccggg ggcggtggcc gggatcggtg gtagctgcc gggcgc 4126

<210> 1901
<211> 341
<212> DNA
<213> Homo sapiens

<400> 1901
tttagtagag atagggtttc actatgttgg tctggctggt ctcaaaactcc tgacctcaag 60
tgatccaccc gccttggcct cccaaagtgc tgggattaca ggtgtgagcc actttgcccc 120
gcctaaattt ttattttttg tagagatggg ttctcaactat actgccagg ctggtctcaa 180
actcctggct tcaaacaatc atcccgcctc agtctcccaa agtgtgtgaa ttacaggtgt 240
gagccactat acctcctggc cagtttttta tttttaata tatacagggt ctcactctgt 300
caccaggct ggagtgcagt ggcattgatct tggctcactg c 341

<210> 1902
<211> 142
<212> DNA
<213> Homo sapiens

<400> 1902
agggaggagg gatagcatta ggagatatac ctaacgtaaa tgatgagta atgggtgcag 60
cacaccaaca tggcacatgt atacatatgt aacaaacctg cacattgtgc acatatactc 102
tagaacttag agtataataa aa 142

<210> 1903
<211> 890
<212> DNA
<213> Homo sapiens

<400> 1903
ctggagtcca tgcccctagg atggggtgag ggagtatcac tctgtgggt ttcacagcac 60
cctggatcct gccttccagc ccctgccaaag gtaacagtgc ctgcctgcct cctgtgggga 120
atgcaggatg gggcaatgcc ctggcagcag ggtcttgct cagctgatgc aactgtggct 180
gctcctgtgt gcacagatca tgtgcctgga aggccttct gcagcaggg cagtgtcaga 240
aagtgaaga gtggtgtgag cagcttccc ggggaaagcc tggctgagca actgacctg 300
agcaagcact gcagatggcc cttgttctc ccgggctcct ccagctggga gctctcagcc 360
cctggtaaat tctggcagt aaagacacat tagcacctcc ccctacaatg aggcacctag 420
ctagacaact tggctgtccg ggcttaacct gcgtggcagg gaaggacgc tgcacagcct 480
tagcctctac gcaatggtgg aggcaggag ggagagaacc acacagctcc ctcatttcc 540

cagcagcccc	catggagcct	agtcaacagg	gtgtgggtcac	aggctaaatg	agcaaagatg	600
tgagctaata	tactggtagg	tgtcatgggg	gcttttcagag	ctgggtaagg	agggaaagag	660
atggagatac	tggttcccca	ctccttaacc	tgccacctgc	cttcctgtgc	ctttacccc	720
cctcattctg	ctggacctga	ggaaaatgca	agggaggcta	ggcctagtgg	ctcatgcctg	780
tcatcccaac	actttgggag	actgaggtgg	gagaatcact	tgagcctagg	agtttgagac	840
cagcctaggg	aacatagtga	gacctcgtct	ctacaaaaaa	atttttaaaaa		890

<210> 1904
 <211> 891
 <212> DNA
 <213> Homo sapiens

<400> 1904						
ctggagtcca	tgcccctagg	atgggggtgag	ggagtatcac	tctgtggggg	ttcacagcac	60
cctggatcct	gccttccagc	ccctgccaaag	gtaaacagtg	ctgcctgcct	cctgtgggga	120
atgcaggatg	gggcaatgcc	ctggcagcag	ggtcttgcct	cagctgatgc	aactgggct	180
gctcctgtgt	gcacagatca	tgtgcctgga	aggccttcc	gcagcagggg	cagtgtcaga	240
aagtggaaga	gtgggtgtgag	cagcttcccc	ggggaaagcc	tggctgagca	actgaccttg	300
agcaagcact	gcagatggcc	cttgttcctg	ccgggctcct	ccagctggga	gctctcagcc	360
cctggtaaat	tctggcagtg	aaagacacat	tagcacctcc	ccctacaatg	aggcacctag	420
ctagacaact	tggctgtccg	ggcttaacct	gcgtgggcag	ggaaggacgc	ctgcccagcc	480
ttagcctcta	cgcaatgggtg	gaggcagggg	gggagagaac	cacacagctc	ccctcatttc	540
ccagcagccc	ccatggagcc	tagtcaacag	ggtgtgggtca	caggctaaatg	agcaaagat	600
gtgagcta	atactggtag	gtgtcatggg	ggctttcaga	gctgggtaag	gagggaaaga	660
gatggagata	ctggttcccc	actccttaac	ctgccacctg	ccttccctgt	cctttaccct	720
ccctcattct	gctggacctg	aggaaaatgc	aagggaggct	aggcctagt	gctcatgcct	780
gtcatcccaa	cactttggga	gactgaggtg	ggagaatcac	ttgagcctag	gagtttgaga	840
ccagcttagg	gaacatagt	agacctcgtc	tctacaaaaa	aatttttaaaa	a	891

<210> 1905
 <211> 155
 <212> DNA
 <213> Homo sapiens

<400> 1905						
cacaacctga	gagagatcac	aggcaagcaa	aaaacactca	aacgtgtgta	aaaccaaact	60
ttcatctcca	cctttccgtg	ttccacctct	gttaaggggg	acagcaagca	gcttgaggct	120
aacgcttggt	ctttgatgac	ctcctttcac	ttctc			155

<210> 1906
 <211> 155
 <212> DNA
 <213> Homo sapiens

<400> 1906						
cacaacctga	gagagatcac	aggcaagcaa	aaaacactca	aacgtgtgta	aaaccaaact	60
ttcatctcca	cctttccgtg	ttccacctct	gttaaggggg	acagcaagca	gcttgaggct	120
aacgcttggt	ctttgatgac	ctcctttcac	ttctc			155

<210> 1907
 <211> 13255
 <212> DNA
 <213> Homo sapiens

<400> 1907						
ggttggttac	tgaatgcttc	tggtatctgc	agccccgctg	gggttcggac	aggggggtctg	60
gaatagggct	tcacaactac	agcagggcta	ggacctctt	gggctggaag	gagctggaga	120

ggcctctgca	agctgtcaca	ggctcttggt	gctggcactg	gctcaggctt	tcacacacac	180
acacgcgcac	acacacacac	acacacacac	ggacaggcac	ccccttggtg	gccttcacag	240
tttcaccttc	aggtaaattg	gctcatcctt	tgagccatga	ggatgggaag	cgaagcaagg	300
aatgaaaaag	ctagtgtgtt	tgtgtgtgtg	tgtgtgtgtg	tgtgtgtgtg	tgagcgcgcg	360
cgcgcgcgcg	cgtgtgtact	cgtgcgtgtg	cctgtgtgtg	ccgggagtg	acctcacagc	420
tgccggaaca	taaagactca	caggtcgcc	tcccaggctc	aaagctggct	ctgcagggga	480
catgagaggc	acaccgaaga	cccacctcct	ggccttctcc	ctcctctgcc	tcctctcaaa	540
ggtaaggagg	cccgggccct	ggaatgcaact	gctgactatt	tgggtgtgga	gggggtgggg	600
atgtaaaatc	gcagccaagg	accccttggt	cagaattcct	ccagggcccc	acattgggca	660
cagtctggcc	cccattgccta	agcagggtt	ctctccctgg	aactcagagc	tgccctccggc	720
cagccctgct	gtgtgacctc	agatatgtgt	cttgcccttct	ctgggcctca	gcattctccc	780
agggtgaagg	tatacagttt	gtgaggcctc	tgtgaagac	attcatgac	attcatcaaa	840
cttaccaggc	aaattgaaga	ggactttaat	gtatcctcat	tatgaatggg	ggcactcaag	900
acatgacatg	cttgagccaa	ctctgagcca	gcatttggtg	ggatgcctag	ctgattggaa	960
ggttcattct	gcaaggcat	caatgctgtt	ggactcttag	gcagtgagtg	acccgccccg	1020
cctagctaga	ggggaacagg	agacacctct	gtggagtaat	ggccttatcc	ctgaatgctg	1080
catgggacat	tcaccaaaga	gcctgtggga	catctacctt	gtctaacatg	cacaacaatc	1140
ccataaggaa	ttttcagtta	agtgaaggctc	agaaagggtg	agcaacttgc	aaccccagtt	1200
ttcagtcaag	tgaggctcag	aaagggtgaag	cacttgccc	aaagccacac	agcaaagaaa	1260
ggtcagagca	atagaggaga	gccatggtgg	agcccagaat	gacatggatg	tagggggaga	1320
agcactccag	tctgtgcctc	cccaagccca	aactggacca	aggccacagc	tgctaagcct	1380
tgtcatcccc	tcggcaaatg	ctgagttccc	agagccatgg	aatcggcccc	accacaagcc	1440
acgatctcac	tgtattttca	cgctcctttg	aggagcacgg	gcaggagctt	ctctccctca	1500
ggctccaagt	cttcgtgcct	gggaagcctg	agaaccacgc	tggcatcctg	tcctgctgtt	1560
tgttcttcca	aaggggatgg	gtagggcatg	atgccagtg	gggtggcctg	ggtagttgga	1620
ataggggact	tggggctcta	ggaggggaa	ggggcccagg	attatacgag	aacaaagtaa	1680
agctgtccta	tgactgccc	tagggtgaga	cttacgggac	cattcttccc	tgggtcccagg	1740
aagcagggac	tgacagaaa	cacagggact	tagtaccac	aacatggaaa	gccacagcaa	1800
ccctcagagg	gagaactgta	agtcttccag	gctggccgtt	ggctccgggg	ctcctggg	1860
tggaccgggg	caggaggcag	acacctggac	acaagcaaaa	tcacattgat	caaggactgg	1920
ccagaacctc	atttaattctc	catcatcact	cagaaacagg	ttgtctctac	tccagtttac	1980
agaggagaaa	actgagcttc	acctccacct	tccaaagccg	tttgtccaca	tgttcagtea	2040
cgtagcaagt	cactggcaga	acttgaatct	caactcttgc	caaaaaaact	ccatgcccag	2100
tactcctgcc	ccagatatca	tgagccttgc	ccccaccac	cagatatcac	agcaaggccc	2160
tggggaaact	gaggcacaa	gggacaactt	gagtttgggc	cttggtatgtc	aacttgaact	2220
tggatgtcaa	tcctgattct	gtctcttact	ggctgtgtta	ctacacggtt	tggctccag	2280
ttttctcatc	tttaaaatgg	gcataatgat	ggcacctcac	attggagggg	taaatgagac	2340
aacagcactt	ggcacatgac	atacatatgg	tatcacatga	gataattgta	cactagaata	2400
gttgatatca	ttaatagcct	ctcctgggta	tcggggccta	cagagtcctg	ccccctgaca	2460
agcatggcca	gtagagggtg	ccacagtggg	agccaagggtg	cacagctgct	ggctctatttc	2520
ctggcactcc	tgttttcagg	tgggagggac	ctgagagtca	tttctgacag	tcctccctcc	2580
attgccca	agccaaggga	gctgaacctc	tgacttagaa	gggaacccaa	aagcctagac	2640
cgtttctatg	tgaatcacct	gtggatttat	gaaaatgcag	attcgggtg	ggcgtgggtg	2700
ctcatgcctg	taatcccagc	actttgggag	gccgagggtg	gtggatcatg	aggtcaggag	2760
tttgagacca	gcctggccag	catggtgaaa	ccccgtctct	actaaaaata	caaaaaatta	2820
gctgggcatg	gtggcatgca	cctgtaatcc	tagtacttgg	ggaggctgag	gcctcccaag	2880
aattgcttga	acctgggagg	cgaagggttg	agtgaagtga	gatcgtgcca	ctgcactcca	2940
gcctaggtga	cagagcaaga	ctccatctca	aaaaagaaaa	aaaaaaaaaa	gaaagaaaaa	3000
gaaaagaaaa	tgagatttcg	gatttattat	ataaaaaattc	agcttcggat	ttatagaggg	3060
gctccagatg	ctgcctctct	gacaagctcc	tagatgacgc	gtctgctgct	agttcagacc	3120
acaccttgag	gggcgaggct	aggccatcgt	ctctagaatc	tgaacagcct	gcagcgatgg	3180
gatccactcc	cttgtgaggc	agccagacac	tactgtccgt	gtgtccatct	gctactcagt	3240
gctgtctcag	tgggggctgt	gatcgccctc	ctatttgggg	ccccaccag	aggctgggtca	3300
gccagtttgc	aatggctcct	agtggccggc	gtgggagttg	ccgggaactg	aaagcaggtt	3360
tgcaggattg	tgggtagtgg	gggcactggg	cggggcagag	ggtgaggcag	agcaaagggg	3420
tcattgcctg	ctttggggct	gcacaggaga	tatgagggtca	ttaattccat	cattataaac	3480
tgcaagcctc	cattcctcta	gatgaaaccc	tcataccta	aggatcctac	taaactcaaa	3540

cttgcccccc	caaagatggg	gccactggaa	gcatcttgaa	ttatacttcc	ttcttggtcc	3600
ccaccttcaa	atgggcagac	agggagctca	cggcacctgc	tgtatgcttt	ggttgtttct	3660
ctgatgtggg	tggcgagggt	caggcaggcc	acatgggctg	ataccctgat	cctgtctctg	3720
gggagtggtt	ccctggctta	cggacacagt	ctacccccat	cccgtgtccc	tgagtcctca	3780
cttgggaagc	aggaccgggg	acgctcccag	ccctgaatcg	aacacactga	cgtgtgctaa	3840
gttcctgtcc	ctctctggag	ctcagtttcc	ccatccgtac	ctggcagggg	gaggagggtta	3900
gactggggca	gaggtgctga	aaacctagct	gagcttcaga	agccactgga	cagcttatta	3960
aaaataaaga	ttccaggtcc	ctgactctgg	gacttctgat	tttgtaagcc	ccagagtggg	4020
ttgggggtct	gtattttccc	aagtctcctg	gctgatgtga	tgtacctcca	gagctgggac	4080
acatgctgaa	tggatcgaag	ggccaaaaac	atccatgata	tggttcaatt	tattcagtcc	4140
taagataagt	atccgtatgc	tggaaaatgt	accagaccct	accattttca	tccttgactt	4200
gttgcttttg	cctttctgta	agctcccaga	gggctggggc	tgagccctct	gccaccatta	4260
acaacaagga	tcatacaagc	taagtgcagt	gagcgcctac	tgcatgccag	gccctgtgct	4320
gagggtttgc	tgtgcagcat	ttcatgtact	cctcagagca	atcctctgag	ttagatactt	4380
tgaggaaact	gaggctcaga	atgctttaagt	aacttcctca	aggtcactca	gctaataagg	4440
ggcagaatta	gaactggaag	tctagccagg	tgcagtggct	catgcctata	atcccagcac	4500
tttgggaggc	cgaggcgggc	ggattgcctg	agctcaggat	ttcaagacca	gcctgtgtaa	4560
catggtgaaa	ccccatctct	attaaaaata	caaaaattgc	caggcatggt	ggtgggcgcc	4620
tgtagtccca	gctactcggg	aggctgaggc	acgagagtgc	cttgaaccca	ggaggtggag	4680
gttgaagtga	ggctgggatc	gcgccactgc	actccagcct	gggcaacaga	gccagactct	4740
gactccaaaa	ataaaaaata	aaaataaaga	actggaactc	tagtccagag	tccttgccca	4800
taactacatg	ccatactgcc	tcttagggca	tgttgtggga	ctactggcct	ttgaggccag	4860
gtctgcatgg	ctctgaggct	aaggtgtgga	caccacacta	cccagcctgg	cagagaagtg	4920
gctggttgtg	aggggtctcac	tgcccacctc	gaaagcccgt	ggctgagtga	ggtctctgtc	4980
tcttcagggtg	cgtaccacgc	tgtgcccagc	accatgtacc	tgcccctggc	cacctccccg	5040
atgcccgtctg	ggagtacccc	tggtgctgga	tggtgtgtgc	tgctgccggg	tatgtgcacg	5100
gcggctgggg	gagccctgcg	accaactcca	cgtctgcgac	gccagccagg	gcctggctctg	5160
ccagccccggg	gcaggaccgcg	gtggccgggg	ggccctgtgc	ctctgtaagc	aggtttgacg	5220
gactgagtgg	gggcggtgtg	gagcgggagg	tcaaggccgt	ggtgtcctgg	atcaaagtgc	5280
agccctcctc	tctctacctc	cttgggtgct	cacttcagggt	atcccatacca	ttccagctga	5340
acttggtgtc	ccaaagccca	ctccccactc	cctcctctcc	cttctggcc	tctgtttaa	5400
ccatctcaact	accccaataa	cctttcccca	tccctacctg	tccaaatcat	tgccaacttt	5460
caaagccaag	ttcaaacagc	ttctcccctg	agaagccccc	ccagattctt	caaaccagat	5520
gccaccactc	ccttctcagg	atccttacaa	cactttgggg	aaaataaaaag	tgcaaccttt	5580
tagggcataa	tatgtgtcca	gaactgtgct	aagcacttac	tacacaagtc	acatcatcct	5640
cacaataacc	ctatgatggg	aagtactttc	agacctattt	tatgaatgag	gaaacagggt	5700
caccagcatt	aagggacatg	cttcatgtca	cacggcacgg	gaccagatcc	aacgggctct	5760
aaggaacagt	ttattctgtc	ttctcccata	gtgggggccc	tcggagcact	gctgggatcc	5820
tgggtttgcc	atgtattcag	cagtcacccg	agcatgtgac	attcctcacc	actcttctag	5880
gccttggtat	tctctgatgc	ttcggggcag	ggctttgcaa	gctggctcca	gtgactgggt	5940
gccagagaat	tatgtgtgtg	gggagggctg	tcctgtgcat	ggttaagactt	ctagcagcat	6000
ccccgaactc	cacccactgt	atgccagcag	cactccccat	cccccaagtc	atgacagtct	6060
gtcttcagac	agtgccaaat	ttccccaggg	ggcaaaatct	ccagttggga	accatcactt	6120
tagagaaatg	caaagaggca	agagattgtt	cttctttttt	cttttttaat	aataagcctt	6180
gtagaacaat	ttgcctcttt	catctatgtg	catgcacac	ttttataaaa	ataagaacga	6240
aagagagaga	gagagaagct	catgaatcat	tgataatgaa	ttcatctgta	ggaaaagcct	6300
tgttaaaaaa	caacaggcca	ggcacagtga	ctcatgccta	taatcctatc	agtttgggag	6360
actgaggcgg	gacgaccact	tgagcccagg	agttctagtc	cagccttggc	aacatagtaa	6420
gatcctctct	ctatcaaaaa	aaaaaaaaaa	aaattagccg	ggtgtggtgg	cacatgcctg	6480
tggccccagc	tacttgagag	gctgaggtga	gaggctcgct	tgagcctggg	tgtttgaggc	6540
tgacgtgagc	catggttgcg	ccactacatt	ccagcccggg	caacagacca	aacctatct	6600
ccaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aataactcca	tgtgaaatgc	tttattttaca	6660
agtactgtaa	ggataaggag	ggtgattcgt	tacactgact	gagggatgat	tgcttatgaa	6720
aatgtatctg	aagaacaatt	gagataagta	acacttcgct	tacaaagctg	ttattttacat	6780
ttgctgtgac	acgtgtaaac	agcaccacac	gagttttatt	tacacttgca	cagcccttac	6840
cacgtgtaag	acactgaggg	tttcacaaat	ataaactcat	ttaatctcac	aaccacatga	6900
ggtaggtacc	cttctcttat	aaatggaaaa	aaggggtaca	gagaggctaa	gcaacttgcc	6960

caaggtcaca	cagctcataa	gcggcagagc	tgagatttga	actcagggag	ctggctccac	7020
aagctccatt	gctcaactgc	ctgcatgca	gcagttgatt	agtacatagg	ctgtgattgt	7080
taataactgt	attaagggat	ttttcttatt	ccatcttaat	tcagacttca	aacacctgca	7140
ggccaaaggc	gtacttgggt	ccctggtcct	tcttgcaact	tcccaccttg	gtctgtcaac	7200
atgatgggtg	ctcaacagtg	tttaatgatt	taaactgaat	ttagaggccg	ggaatgggtg	7260
aaccccaaa	agtccagcta	agacatcaca	aaggctcagt	ctagggcttt	gcagggaaca	7320
tactgccaaa	aacctctccc	atcacttact	cgttgaacgc	tcttctctaa	gggccaaactc	7380
tgagctgtga	gatgtgctgc	agattcacca	tcgtgataac	agcgcattca	atgccgggat	7440
cctgatcttc	cgccccccag	aacggcctcc	ccagtctgtt	gagagcacct	ccatccttct	7500
catggctcag	actcaagacc	tgggagtcgt	tctagagggtc	tctctatctc	tctctctttt	7560
tttttttttt	tttttttgaga	tggagtctca	ctcttttcacc	caggctgggtg	tgcaagtggca	7620
ggatctcagc	tcactgtaac	cccatctctt	gcgttcaagc	gattctcag	cctcagcctc	7680
ccaagtagct	gggattacag	acacatacca	ccaggtcctcg	ctaatttttg	tatttttagta	7740
tttcagtaga	gacgggggtt	caccatgttg	gccaggtctgg	tctggaactc	ctgacctcaa	7800
gtgatccacc	cgctctggcc	tccttaagtg	ctgggattat	aggatagagc	caccacagcc	7860
ggtctagaca	tctctctttt	ctcacctccc	acataccacc	caccagcaaa	ttcatctgtg	7920
atttcacgca	tccgacactc	ccatcccttc	tgggtctgagc	cccgtcatca	ttggcctgga	7980
ttttgcagta	gccccataat	catctccctc	cttctgtcgt	tgccccctgg	ctattcacaa	8040
cacagcagtc	agagagctcc	tgggaagtca	taagccagat	cactccctc	ctctgcccc	8100
agccttcttg	tggcttccca	tctcagagga	aaagccaaag	tccccacagt	ggcctacaag	8160
gccccaaacag	gatcctgttc	atgcttcttc	tctgacctcc	tctcctctctg	ctctctgtctc	8220
cagccacatt	ggcccccttg	tgctccttaa	ataccccagg	cacactcgtg	cctcagggcc	8280
tttgactgg	ctgttccctc	taccagcatt	atttctcagc	aaggccttcc	ctgctggagg	8340
attagatgag	ctaggggact	tacagcattt	tgccccaaagc	ctggcacata	gcagatgcta	8400
ogtggaaagca	taacctcttc	ctgtttattg	agcatctgct	atgtgccagg	cttgggggcaa	8460
aatgctgtaa	gtccccctagc	tcatctaata	ccccagcgc	cctgtgagcc	gggtaccaag	8520
gctcagagag	gcaaaataaac	ttgccccagg	ccccacaaagt	gggagccaga	gttggaaacct	8580
aagtatgtgt	ggtttttggtt	ctgaaacccc	tgtgtgtgta	cagacctact	ggaaggtttt	8640
ctcagaagat	ctggggagaac	ttgtttgcta	atgagtcctt	tccccagacg	tagctcagtg	8700
gccacccagg	tctcacacac	acgctgtttc	ccgtctgcac	tctctgagca	gctcacacgc	8760
ttcacccagc	ctcttacttc	attctgtctt	ggagatgatg	ccctcacacc	cgtccccctt	8820
tcccaagccc	atgagtcctt	caaggcagga	actgtcctct	ttctgtcttg	gagcacagtg	8880
gttggcacac	aggcgggaaa	cagtaaatat	cttgggaatg	ataaggagta	gggtattttt	8940
atcagggctc	ctcatgtgcc	aaggcttatg	ccagctattc	actgaagggg	cattcctaca	9000
gtactgtgtg	tgcacctag	gctctgagcc	caccggaggg	tgcagagacg	cacactggcc	9060
gccccagccc	tcaaggagtt	catgtccagt	ggaggaagtg	gcaataacac	ccatatcttg	9120
agggcttcat	tgaagagtg	ttccctgagc	acctaggcca	tgcctagcac	tgtgtgctag	9180
agggtagcga	catgtcatcc	catggaacct	gaagttacga	ttactgagct	catcattgct	9240
gtagttcagg	ccactcagag	aagttaagta	acttactcaa	agacacacag	ccagcaagtt	9300
aagccctgac	ctgacagtga	tgacagaca	agtggaacaac	gactttgttg	catgaaatct	9360
cagcgtgtat	agaatactta	aactttatta	atatatagta	actatactaa	tgataataac	9420
agagtagcta	ggacctatgg	aaggtctctt	ttatgttgtg	atcattacgc	ctatcattcc	9480
gagtagtctc	taccaccctg	gaaaataagt	accattatat	cccagcttgc	aaatgtgga	9540
actgaggcaa	gaagaagtga	aatcacttgg	cccaggttca	cagctaagaa	agggcagagt	9600
ttgggggggtc	aatccaggcc	tgtcttcttg	caatccctgt	gcccgggatcc	aggggtcccc	9660
agcaggcttg	tggagggctg	gggagaggtg	catatccttg	gctggagccc	tgggcagggc	9720
ccagctactg	tgaggcagct	gctcaggca	gcgggatctg	ggcagctctg	cagagaaggc	9780
tgtgccgctt	tgccgggtcac	cgatgggggt	gcggtttttc	ctccgcagtg	gcagaggacg	9840
acagcagctg	tgaggtgaac	ggccgcctgt	atcgggaagg	ggagaccttc	cagccccact	9900
gcagcatccg	ctgccgctgc	gaggacggcg	gcttcacctg	cgtgccgctg	tgagcgagg	9960
atgtgccggt	gcccagctgg	gactgcccc	accccaggag	ggtcgagggtc	ctgggcaagt	10020
gctgccctga	gtgggtgtgc	ggccaaggag	gggactggg	gacccagccc	cttcagccc	10080
aaggtgagcg	cagcggtggg	ccaggtcagg	gcaggactgc	ctggggggcg	caagggccac	10140
ctaggggggtg	gggtggggg	cggttctctg	ggtaccagga	cccagggaca	catcagaagc	10200
tgggaggggc	ggaggctgag	gagggagata	agaaagagga	gtggagggcc	gggcgctgtg	10260
gttcaccctt	gtaatcccag	tacgttggga	ggccaagacg	ggcggtacac	ctgaggttag	10320
gaattcgaaa	ccagcctggc	tgacatagga	aaaccccgctc	tctactaaa	attcaaaaat	10380

tagcctagca	tggtggcggg	catctgtagt	cccagctact	tgaggaggctg	aggcaggaga	10440
atcgcttgaa	cccgggaggg	agagggttgca	gtgagcccag	atcacaccac	tgcactccag	10500
cctggccgac	aagcacgaaa	cttcatctca	aaaagaggaa	aaaagaaaga	ggagtggagg	10560
gtcaccaggc	ctccctcttt	aaaaccaata	aacaaaaagc	cactgccttt	gagatgtgta	10620
atttaaaacc	ataaataaatt	aaaaataaaa	actgggtgac	agagccggga	gaggaaaggt	10680
gggttaggg	atgtgaacca	aattctcaca	tttcagagat	ataatagagc	taagctctta	10740
gaatatataa	tattatcgta	tttataatat	attgatacat	ataatatat	ttagtaattt	10800
attattattt	gggcttacta	aaaaaggaac	tcaaaactga	acgaggcaaa	gtggctgctc	10860
tggaatgtgg	gccgggggtg	ggctagagat	ggagaaaaga	cagttacctc	ccaccgtccc	10920
actataaatc	ttcaatttta	gagatttttg	ttgttgctgt	gttgcttttt	gaaaattatc	10980
acatgaatgt	gacttttctaa	aaaaggcaac	tgaaaagagg	aggattgatt	tcataaatgc	11040
tgctgccacc	cacaagaggt	agtcacgtgt	tatgggtcag	gtgcacggca	tctgcaacag	11100
ccccgccatc	ccctttttgc	tgtgtgactc	tgagaaagtt	gcttaacttc	tctgtgtctc	11160
agtttctcca	cggtgaaaat	ggggacaata	agagcacc	cttcatagcg	ttgtgagaac	11220
tacttgagtt	tgttcaagtt	aagcagctgt	agcagtgctt	ggcacatggg	actatatcag	11280
aggtagccgt	tattatccct	gtgatggaat	atgatataat	catttaaata	cataggaaaa	11340
caccagttag	ttcaccttat	ggataaaaagc	aggataagaa	ggtgtatttc	caactcgatc	11400
tcaactaagt	gtgtccctat	gcacgtatac	aggatatact	acacatacac	atgcatacac	11460
agcacacaca	tgtgggtaga	aatcaggggt	tctcaacgtc	agcactagt	acaattgggg	11520
caagtaatta	tttggtgggg	gggttttctc	gtgcaactga	gggtgcttag	cagcatctct	11580
gacttctact	cactagatag	cagtagcatc	ccccagttg	tgatcaccaa	aactgtctcc	11640
agatattgcc	aaaccttttc	tgaggaggca	aattacccta	gttgaggact	tctagtgtaa	11700
gactagaagg	aaggacacca	aaatactcac	agaggagagc	ttggagcaga	gaaaaagcta	11760
gaccatggtg	aacctgccat	cttgttcctg	gcacaagaat	cctggaatct	ttagcatcct	11820
tgccactggg	ccaaagcacc	actccacaca	ggctgggcac	cccctgcctg	taaaatgctg	11880
tttatccaaa	gagacgagaa	aaccatgggt	cactgaggga	ccatcgtgac	caacacacc	11940
tggttgccaa	ataactaata	tttatggaaa	tcttacaagt	accagggtact	gtgctaggca	12000
cttcatgccc	attattttat	tcaatgccat	ccactgttaa	gaaatttaca	taacaagaaa	12060
ctgagatgca	gagaggctga	gccatttgac	caagattgcc	gtggccgctg	gcagggtggg	12120
tgattgagct	gctgagccct	ggctgctcag	tgctaactct	tggtctttcc	cccctaggac	12180
cccagttttc	tggccttgtc	tcttccctgc	cccctggtgt	cccctgccc	gaatgggca	12240
cggcctgggg	accctgctcg	accacctgtg	ggctgggcac	ggccaccggg	gtgtccaacc	12300
agaaccgctt	ctgcccagct	gagaccagc	gccgcctgtg	cctgtccagg	ccctgccac	12360
cctccagggg	tcgcagtgca	caaaacagtg	ccttctagag	ccgggctggg	aatggggaca	12420
cgggtgtccac	catccccagc	tggtggccct	gtgcctgggc	cctgggctga	tggaagatgg	12480
tccgtgccc	ggcccttggc	tgcaaggcaac	acttttagctt	gggtccacca	tgcaaacac	12540
caatattaac	acgctgcctg	gtctgtctgg	atcccagagt	atggcagagg	tgcaagacct	12600
agtccccctt	cctctaactc	actgcctagg	aggctggcca	agggtgtccagg	gtcctctag	12660
cccactccct	gcctacacac	acagcctata	tcaaacatgc	acacgggcga	gctttctctc	12720
cgacttcccc	tgggcaagag	atgggacaag	cagtcctta	atattgaggc	tgcaagcagg	12780
gctgggctgg	actggccatt	tttctggggg	taggatgaag	agaaggcaca	cagagattct	12840
ggatctcctg	ctgctttttc	tgaggtttgt	aaaattgttc	ctgaatacaa	gcctatgcgt	12900
gatcttgtgt	gtcaggcctg	tggtttctga	gaaagccctc	ccattatccg	gggcagaatt	12960
caggggcaga	gttctctgtg	aacctcacia	ggtgaaatca	catgggtctta	aagaaagcca	13020
gaagacaggc	cttcaagtga	tccaagaaac	ccaattcata	ttaaaataa	ttaacttttt	13080
tatttattta	tttttttgag	atggagtttt	gctcttgggt	cccaggctgg	agctggagta	13140
caatagcacg	atctcgactc	actgcagcct	cccgggttca	agtgattctc	ctgcctcaag	13200
actcctgagt	agctgggatt	ataggcgcac	gccaccatgc	tcggcttttt	ttttt	13255

<210> 1908

<211> 559

<212> DNA

<213> Homo sapiens

<400> 1908

aggtaatggg	ggccccagac	agcccttgac	atcacctctt	ttatctttgc	caaattctac	60
aaacaaagcc	catgtctttc	tgtccccgc	ccccatggct	ggcacatagt	agatgtcccc	120

aaatcttggg	gatgtgaact	tgtgtgtctc	acccttcaca	gaatcacca	tttcccgttg	180
cacagaaggc	tccactcata	ccaggcgctt	tggctcccag	aataagcagg	ctatcatgct	240
atgtccgaca	tctaggcggt	ggtacgtact	gttcccttgg	cctggaacat	tctgccctct	300
ctcacccctct	cttttcttgg	ctttctgaaa	tggcacctcc	atcagaaagt	gtccctcact	360
cttgggtctga	gcaagggacc	ttgcctggta	ttcctgaact	tccacctgtt	ttccctctgt	420
tttctccctc	tctgggcctt	gtcctcaggt	cagtgttgtg	cctccagctc	ctgcagaggc	480
gaactcagag	gcggccgaat	gaaaccaaatt	ggatttggct	tgaccccatc	atctagcggt	540
gcccagcaag	cgctggcac					559

<210> 1909
 <211> 26166
 <212> DNA
 <213> Homo sapiens

<400> 1909						
gccacgtctg	caagtcagcg	tttattgctc	aagcgtatta	aacaaaaatg	tagactgaaa	60
gagacagttc	ttttaaaccc	cattttttccg	gatttttttaa	gcgctctaaa	ataagaaaaat	120
aagaaagtgc	aagccagcaa	aaacgctcca	agtgcctaata	tctgactctg	aaacttgagc	180
tctctgggtct	gcccccaaga	agacatcagc	ccgccccggg	tcgtccctgt	ggctcccacc	240
ccattcccag	gagcagaccc	cgccagcctc	aaagctgcag	ggaggtgggg	gtggcctgca	300
gacaggggtg	ggtctgcac	cggtaccagt	gacacagcc	tctcctctcc	cacgggtggcg	360
cttggtttggg	gctgtggcca	aagtgtttgc	ccggccccctg	actgtgtcct	tccggagctg	420
ccgaggactg	cagagagggc	ctggcttgtc	ccctctagga	gcagctggga	aggtgtcttg	480
cctgcacccc	ccttcaatgg	ttgaaaataa	tgattccact	tgtcatgaac	accatgaagg	540
tatcttggca	gccagagtca	ctcctgttcc	gcagtgaggaa	acctgggagg	gtcctcaaac	600
cccctggcag	ggtctgcagg	ccgcccccatc	cagctgcac	tcccaggcct	cctggttctt	660
tgatcttgat	ggccccaggc	cacagatgca	tctccgggcc	tttccagcag	cccatggggg	720
accagtcaat	acacccccag	gcggtgaaag	gaaaacgttc	atgtcttctc	agatcagaag	780
gaaagaaaca	aaaccattgt	gaaggaaaaac	acctgttgga	aagtaattat	caaagtaaca	840
gcattccagt	ttcacagtgc	ccccaaactca	ctgtggattt	actgccgtca	gctgggagga	900
cccaggcgcc	ctcgggacga	ggagacgcag	ggaaacccac	tcctggccat	ggcactaccc	960
aaagccagtg	ttattctcac	acccaactgt	ccctgcagcc	tggcaggttg	gcagtgaccg	1020
cctgggctgt	accctaagac	cccaaaaacag	cggagatgga	gaagaccgct	gccctggggc	1080
cttctcagtg	aggatcaaga	caaagtactt	ctaggagggt	agagggcgct	gggtgaacct	1140
gtgagaattc	ctgggctctg	acdgtactct	tctgtcattt	tgagtaatgg	gagcaaacac	1200
aggaggagg	ggctcagctt	cccccggtca	ctggggccag	ggagacgttg	tccagccggt	1260
ttacaaaagg	ttggatgcag	ccccaccccc	aagaacactg	cctgtcacag	cagcggccac	1320
gtggcactcc	aagctgggca	tgacagtgcc	cgggacgtgg	gcagcggcca	tgtgactc	1380
caagctgggc	atgacagtgc	ccgggacgtg	ggcagcggcc	acgtggcact	ccaagctggg	1440
catgacagca	cccaggacgt	gggcccggcca	gtgtggcggt	ggatccctct	agaatgactg	1500
ggtctaagta	gggagacagg	gcaggcgacc	cggcgtggac	tgggtgtgat	ttcacctggg	1560
agagcagcgg	cagcctgtgt	cgcttgcgcc	caggctctgg	aggaggggcc	cctgcggctc	1620
ccgggccagg	acagaggcgc	ccagccctgc	tctcactgtc	caggaagagc	cgctgggcag	1680
cctgagcctg	gggcagggtgc	accttgcagg	gaagtgggta	agatccctct	gggctgactg	1740
agtacccggg	acagacccta	agcgtggagg	gaggaagccc	ggtcagag	ggcaggagac	1800
gcagggaccc	acagtctggt	cagggtccaga	gagccactc	cagcccaagc	catgagagag	1860
gcaggaaagag	gagctggggc	cagttcaggg	gtggggctct	caagaggccg	agccgggggc	1920
ccttctctcg	cctgggaagt	tgcggccatg	ctcctgctgt	tacgacacgg	gagccactcg	1980
gagctgactg	atctcactga	ggcacagact	agccaacatt	ggcctatttt	aaaattaaac	2040
taccctagga	agtgaaaacc	ccacctgcag	cctggtttgc	cctcacacaa	gggaaaagag	2100
gtgttagaag	cagtagctca	gggcgattag	gggttgtgcg	tttccatgct	tggggccagg	2160
ctgggcgctg	ccaccgggtt	tccgcgtctg	ggggtcactg	ggcatttgc	accacgacgg	2220
ctctccaggc	tttctccttg	tcgaactcct	tcagggggct	cctggccacc	tgcaaccgag	2280
acaggaaagg	tgttacttca	ccaggggccac	ctgtgcggcg	ggaaggtgga	cacgccactc	2340
ggccacaggc	agcgagcagc	cagcgttcag	aagttttctt	cgaatgtgaa	ggaagtgggg	2400
aaactaaccc	ctgggcctct	gtggaaaagag	ataaaaagcct	tcacttcctc	agtgtcccag	2460
aaacgcctgc	atcccccccc	gcacacacgg	tttctaccga	gcctgggatg	gagcagccct	2520

tcaactcggcc	ccttgccctg	gctctggggc	ggggagcggg	gggaggccgc	ccaagggttg	2580
gcatgtgcct	gacggctgag	gaagaaaaca	cttaaggag	aggtaaccag	atgcctccag	2640
gcaaaaggga	ggacagcgcc	agccccagct	gtccaccctg	agccccagtt	gtccaccctg	2700
agccccagct	gtccaccctg	agccccagtt	gtccaccctg	agccccagcc	acccaccctg	2760
agccccctgg	ccccagccgt	ccaccctaag	ccccagccat	ccaccctgag	ccccagccgt	2820
ccaccctgag	ccccagccgc	ccaccctgag	ccccaaaccgc	ccaccctgag	cccaagccac	2880
ccaccctgag	ccccagccgt	ccatcctgag	ccccagccgc	ccaccctgag	ccccagccgc	2940
ccaccctgag	ccccctgggac	cagcagttct	gggatctggg	gagaacacct	catgcgtctg	3000
actctggggc	ttgctgggtc	caacagaaac	caggcgggt	ctcatttcag	gcccagggac	3060
tgccgtccta	gcaggagagc	tgaccacagc	caggaaaaat	ggcagcaaag	caactgagga	3120
ggcaggttaa	gggaacagca	gtagggaggg	tggaggggtg	gggcgacggg	gtcagctgag	3180
aaacgagcca	agggcaagag	agcgtcctcc	gggacttagc	gggcactgga	ggctctgcac	2940
caaggttctg	aggccggtgg	tgtgctgaac	acaggagggc	agggtgtgca	gggcaagagc	3300
agcggccggg	ccgccagga	tggcctagag	gtggggcagg	actcagagcc	ccgctgagtg	3360
gctgcccagg	tgtttgggca	tcaaggtgac	agtccctagt	gtcactgcac	ctgaggggtc	3420
gcgggcaggt	ttgccccagg	gagcacacc	aggaccctga	gctcgggtggg	gggaagacgc	3480
tgagcctctg	cctttcagat	gtgggggcag	caagacagta	ggcagggccc	gggggaacat	3540
tgttcaggca	gtgacagcca	gaagttgttg	acaccccagc	tttacggagc	cccatgtgcc	3600
aggctgggtg	ggcattgcct	tccctgcaga	accgcgtccc	caccagagac	caggggaaga	3660
aacttcagga	cctgtgggag	tcctcacaaa	gccctcttct	gtgtctctaa	gagcaaactt	3720
gaaagcatta	agtcacagaat	atttcccagg	gatgggtctg	ggtttaccca	ggctttgtgt	3780
ttgtattttt	aaaagacatt	ttacggctgg	gcgcgggtgg	tcacgcctgt	aattccagca	3840
ctttgggagg	ccaaggcagg	ggatcatga	ggtcaggagt	tcgagaccag	tctaaccaac	3900
atagtgaaac	cccatctcta	ctaaaaatag	aaaaattagc	tgggcttggt	ggcgggtgcc	3960
tgtagtccca	gctactcggg	aggctgaggc	aggagaattg	cttgaacca	ggaggcggag	4020
gttgtggtga	gccgtgatcg	cgccactgca	ctccagtctg	ggtgacagac	tggactcct	4080
tctcaaaaaa	aaaaaaaaaa	aagaaaagaa	agacatttta	cttcttcggg	gtttttcttg	4140
ggtgttttta	aaaatacaaa	gtggcacaaat	gaatcttcga	gggccacgtc	gtgtggccct	4200
cggaggccct	caccaggaca	ggagccccc	ccgcaggcct	ctcacctccc	cagcgggtgc	4260
tcctgtgggc	cactcactc	cccagcacc	ctgaaaccca	caggcctctc	acctccctgg	4320
ctgagcacc	ctgtgggcca	ctcacctccc	cagtgcctcc	acccacagg	cttctcacct	4380
ccctggctgg	gccccccatg	ggccactcac	ctccccagca	cctgcaccgc	aggccactca	4440
cctccccggc	tgggcacccc	tgtgggtac	tcacctcccc	agcaccct	ccccctgcag	4500
gccactcacc	tccccggctg	ggcacccctg	tgggccaact	acctccccag	cttcccccca	4560
ccccacaggc	ttctcacctc	cctggctggg	cacccccgtg	ggccactcac	ctccccagtg	4620
ccccctcccc	ctgcaggcca	ctcacctccc	cagccaggcg	ctcctgcggg	ccgttctggg	4680
tgtcccagga	tgcaccctgc	agccttgac	tgaccttgaa	gcgcacgcac	tggatggcgg	4740
tgcccgtgtt	gaggccggcc	tgcagcagga	gcactagcag	cagcagcagc	agcagcacat	4800
cgtaggatgg	ctgcaggcgg	aaggagggtg	gagcagagt	gcccagccgc	cctccagccc	4860
aggagaccaa	agtcctctcg	tggccacggc	gcggtgct	cgccagggaa	agggtctgag	4920
tcggagcccc	agtaacccaa	acgcattgct	atttcaacaa	cctgatgata	atcattctag	4980
ctcaattaat	gagggtcaatt	ctgcttttaa	ttccatcagc	ttgtgttcaa	catacaggaa	5040
taaaagtga	cgagccactg	ccaggccccg	tggacagtgc	tggctgctag	tggtaagtc	5100
gctccacccc	tcctgtctca	acacgcgcaa	ggctcagtc	cagagccaga	gagaatgtcc	5160
gcgggaggga	gaagcgctga	ccgttccgtg	tcagcaggat	cctgagcggg	ggagacaggg	5220
ggcagccgtc	ctggggggat	gggggtgcaca	gacccccaac	agcttcaccc	ctgagcacca	5280
gctgctagga	aggaaggggc	aggaggcagc	gcggtgct	cggcagggaa	gaggatggag	5340
ggagcggccg	aggatgcagg	gggcccagaga	gtgaccacgg	agcacccaaa	acctctgtg	5400
cccatggata	gctttcccg	gttggctcaa	gaaaaacaaa	gcaactaaat	gttaacacac	5460
aaaagagcca	aacatctatc	caatgtcact	gtacacaaaa	gtaagagaag	aaacagaacg	5520
aacagctctt	ctcaagttaa	cataaaactt	ttttttgcga	cagtctccct	ctgtcaccca	5580
ggctggcgtg	cagtggcgcg	atctcggtc	gtgtcaacct	ctacatccca	ggttcaagcg	5640
attctcctg	ctcaacctcg	ccagttagctg	ggattacagg	tacccgccac	cagccccagc	5700
taattttcgt	agtttttagt	gagacggggt	ttaccatgt	tagccaggct	ggtctcctaa	5760
cctcaggtga	tctgctgct	tggcctccc	aaactgctgg	gattacaggc	atgtgccact	5820
acgcccggcc	tggattttaa	gtaattatta	gaaagtctgg	tacttgtgtt	cccagctgga	5880
gtttaccctg	gaggatggta	aaggcatggg	ccccatgtgg	tctttgctct	tcggtgtgtg	5940

agacaccatt	tattgcaaag	cctatgcttt	cctcagtctc	aaaaaaaaaa	aatccagagc	6000
cattaaagaa	aataattaat	aacttaacta	tttaaaaaaa	tagctttcac	ataacaaaaa	6060
tcacaacaag	cagaacaaga	aatagccgcc	aggctgagac	caccatttgt	atcctccatc	6120
acagatggag	ctggtctccc	ccggaccag	ggttagcgga	aaatggtcag	gagacatgag	6180
cagagtccac	tgaaaaagca	atgcagacgt	cctcatgctt	tgtaagaggt	cctcgtcctc	6240
acccacattg	agacggaggt	gtccccaccc	gtgtcaccga	actccagcgt	gacaccctct	6300
gtggggggct	gtggagaagt	gagcaccttc	acgccattgg	caggagggaa	ggtggaggc	6360
ccccattgag	gaggtcgccg	agattttatca	gcatgacagc	tgacacctacc	ctctaccag	6420
cagtctctct	cctagctgga	tatcctaaag	atgcgctgag	gattcaaaaag	gaagatgcgt	6480
gcaggttgtt	cacggaggag	ttattttatag	tagcagacgg	ttggaaataa	ctcagtttcc	6540
atcactaggg	actggtctgg	ttgaccgggc	agtcaggagc	gatgaaggaa	ttcagaagag	6600
ctctgatccc	cttgggtatc	gagaaaacac	caggataaat	tattaagttt	aaaaaaacaa	6660
gcaaggggct	gggcacggtg	gcagaagcct	cctcatccca	gcactttggg	aggccaaggt	6720
gggcggtatg	cttgagccca	ggagctcatg	acagctcag	gcgacagagt	gagaccctgt	6780
ctctgaaaaa	taaaaataagt	aaatacataa	ttaaaaagcg	aggtagatgg	ctgggcacag	6840
tggtcacgt	ctgtaatccc	agcacttcgg	gaggccaagg	tgggcggtac	gcttcagccc	6900
aggagctcat	gaccagcccg	ggcaacagag	tgagaccctg	tctctgaaaa	ataaaaataa	6960
taaatacata	actaaaaagc	gaggtatatg	gctgggcacg	gtggctcacg	tctgtaatcc	7020
tagcactttg	ggagcccgag	acaggcagat	cacttaaggt	caggagtcca	agaccagcct	7080
ggccaacata	gtgaaaccct	gtctctgcta	aaagtacaaa	aattagccgg	gtgtgttggc	7140
atatgcctgt	aatcccagat	gctccggagg	ctgaggcagg	agaatactt	gaaccagga	7200
ggcagaggtt	gcagtgcgcc	aagactgtgc	cactgcactc	cagcctggga	gacagagtga	7260
gactctatct	taaaaaaaaa	aaaatggcaa	ggtacagaat	agtgtattcta	gtatacaagc	7320
tattttgtaa	gaaagaaaaa	aaaattatca	tctggttgcc	cataagagga	gcaggtcagt	7380
caggcatgag	accacagctt	ttctgagctc	gtcttttata	gttttgcttt	tgaaccacat	7440
aaatatttta	tatattcaaa	aaataccatt	ttaaaaagaa	aaaaagcacc	aagccctaaa	7500
atggaatata	accagaggcc	attaaactta	atggggtatc	gaaccagag	gataacccca	7560
cacagaaaag	ggccgacttc	gatggcgtgt	ggccgtcccc	tgctagcaga	atgcatgctg	7620
aagataaaaag	ggaagcctca	ggctcactca	ggagatggcc	cctgggtggt	aatattgtct	7680
cttgtaatcg	tgaacaatta	tatgcatatt	gtaagacaac	atgaagtagg	agatatatta	7740
aatgtcacag	gaaacaaaat	aattggagta	ggagtgggtg	aagcaaacac	aagagaagtg	7800
aagaaaaaac	cctgggcccg	gtgttgtagc	tcactcctgt	aatcccagca	cctgtgggag	7860
gccgaggacg	ctatccccct	tcagacagtg	actccatgcc	cccatcagac	agtactcca	7920
tccccatca	gacagtgcct	ccattacccc	attagacagt	gactccatcc	cccgtcagac	7980
agtgcactca	tccccgtca	gacagtgcct	ccatccccg	tcaggcagtg	actctatccc	8040
ctgtcaggca	gtgactccat	cccccgctcag	gcagtgcctc	catcccccca	tcaggcagtg	8100
actctatccc	ctgtcaggca	gtgactccat	ccccctgtca	ggcagtgcct	ccatcccccc	8160
atcaggcagt	gactccatcc	ccccgtcagg	cagtgcactc	atcccccgtc	aggcagtgac	8220
tccatcccc	atcagtgcct	ccatccccca	tcagacagtg	actccatccc	ccatcagaca	8280
gtgactccat	cccccatcag	gcagtgcacc	catctccat	cagacagtga	ctccatccat	8340
ccatcagaca	gtgactccat	ccatccatca	gacagtgcct	ccatccccca	tcagacagtg	8400
actccatccc	ccatcagaca	gtgactccat	cccccatcag	acagtgcctc	catcccccca	8460
tcaggcagtg	actccattcc	ccatcagcac	acgcagtgtg	acctggagca	aacagcttaa	8520
tacaggctct	ctaattgattt	gggtgcaaaa	ccacttatac	tggaaaaaaa	aaaacaaaaa	8580
aacaaaaaaa	cactaggtat	ctaagaaata	catctagcta	cacgtgcctg	agcctcagaa	8640
gtcgtgttgg	agataagctc	ctactgggtc	agctcaaagt	aacaggactt	tgaattctcc	8700
ttaaattcac	ctgttaaact	caatgcagtt	ctgatgcaaa	tccgaaaagc	atgtctcata	8760
aaccaggac	agattctaaa	atgggctcag	ggacagagtg	ggtcccaggt	ccctgtgaag	8820
cagggtggtg	ccccagatac	aggcggaat	cgaggccccg	aggccctggg	gccaggctgg	8880
cattggggag	cacggtcacc	gctgcccagg	aacagcgagg	gaggtgcctc	ctggagctgt	8940
ccctggagcc	agcgccccca	gagtcccagg	caaagccagc	aagggccagg	ccaacacgca	9000
gagcaccaca	tgtctggggg	gctctgaaat	aaaatacaac	tcacttttat	ggcggcggg	9060
taactcttaa	acatctccac	gattctcatg	atgtgaaatg	acagatatcc	agaggctgtg	9120
aacagcagcg	gagacgtgag	gctgcttatg	gcactcagga	cctccacctg	gaaaaaaaagc	9180
gcgggttgca	ggaccacggc	cggagcctgg	gagcccagga	cagcgggcgt	ggccagggct	9240
ggggggggcg	gcatggccgg	gcactcatgg	gcatagtccc	aagctgggtc	cctgcagtgc	9300
tcctgctgaa	acctctgcct	tttctttttt	cttttctttt	tttttttttt	ttttttttga	9360

gacaagtctc	gctgtgtcgc	caggctggaa	tgcagtggca	tgatcttggc	tactgtaac	9420
ctccgcctcc	cgggttcaag	tgattctcct	gcctcagcct	cccagtag	tgggattaca	9480
ggcgcccgcc	accacaccca	gctaattttt	gtatttttag	tagagaccgt	gttttgccac	9540
gttggtcagg	ctggtcttga	actcctgacc	tcaggtgac	caccacctc	ggcctcccaa	9600
agtgtgtga	ttacaggcat	gagccaccgc	gcccggcctg	cctttctttc	ttttttgaga	9660
ggcagcctag	ctgtgtagcc	caggcaggag	tgcggtggca	caatctctga	tactgcaac	9720
ctctgcctcc	tgggttcaag	caattctccc	gcctcgccct	cttgagtgc	tgggattaca	9780
gacatgcgcc	accacacctg	gctaattgtt	ttgtattttt	agtagagaca	gggtttcacc	9840
atattgtcag	gctggtcttc	aactcctgac	cttgtgatcc	accaccttg	gcctcccaaa	9900
gtgctgagat	tacaggcatg	agcagcctgc	cttttcattc	acagcacagt	gccacaagt	9960
ttgaaatact	taccatctag	gcaagggtgg	tcacatctgt	aatccaagca	ctttggggag	10020
ccgaggagg	cggatcacct	gaggtcacga	gttcgagacc	agcctggcca	acatggtgaa	10080
acccccatct	ctactaaaga	tacaaaaact	aagcgggtgt	ggtggcgcat	gcctgtagtc	10140
ccagctactt	tggaggctga	ggcaggagaa	tcgcttgaac	ccgggaggca	gaggttacaa	10200
tgagctgaga	tcgtaccact	gcactccagc	ctgggtgaca	gagcaagact	ctgtctcaaa	10260
caaacaaaac	caagaaacaa	aaaacattta	cctgcaatc	tccactcttg	aaaaaatagc	10320
ccttccgcat	gggtcacctc	cttcaactgt	ctgaagtctg	tccttttaac	ccaccccaaa	10380
tcttcctggt	tgacccatca	agtctcagag	acagccttca	ctcatgccaa	gcatgggcag	10440
tcaccttgca	aagcactcag	ggtccacatt	ttggcagcag	tcattaacga	tcgaccagtt	10500
caattgtttg	cggtcagttt	gtggcagttt	cggccgggcg	tgggtggctca	caccggtaat	10560
cccagcactt	tgggaggttg	aggtgagttg	atcacctgag	gtcaggagtt	cgagaccagc	10620
ctggccaaca	tggtgaaacc	ccgtctctac	taaaaataca	aaaattagcc	gggcatggtg	10680
gcaggcgcc	ataatcccag	ctactcagga	ggtgaggca	agagaatcac	ttgaacccgg	10740
gaggcggagg	ttgcagtgcg	ccaagatcgt	gccattgcac	tccagcctgg	gggacaagag	10800
cgagactgca	tctcaaaaaa	gaaaaaaaaa	caatcgacca	gccttaggag	gtgcagatga	10860
tgctcagaca	ctggtctcct	tccaagggtt	aggcacagag	agcgcttcca	gtgtctacac	10920
caccttgttc	aggtctgcct	gtccctgaga	acagtccttg	ctgagcgggc	cagcctccac	10980
ctcccacaac	cccaccttcc	tcatttgtgca	ggccttgca	cccagtcact	gcgtctctct	11040
gggctggagc	ctggtcacat	ggcaccaagg	gagggttagg	ccaggccctg	gccccgctcg	11100
gtgggtccct	ggcacccagg	gctgaggggt	tcacccacca	gacacttgct	gggacactct	11160
gctgccacat	gactggcaat	ggcacttgga	aagcactaag	agaaaagaaa	aaggaaagat	11220
tttagaggaa	atagtcgaag	aagtcgaatt	ccaaacatgt	gccctcccac	cagtgaaccc	11280
tccatgcagg	ctgectggct	ggcttgctgt	ggggggcagg	ggggatggtg	cagtgcacaa	11340
aggcgcagct	ggggcaggga	cgggtccgca	gggaagcagg	ggtagcctct	cagaggtttt	11400
gtgtgctctc	gttccctcaa	ccatttggtt	aaaattttta	gcctgtagaa	aagctgcaag	11460
agcagtggag	ggggcatctg	aggcccaaaa	atcacagag	tccttgacat	tcatactctgt	11520
gctctctcca	gctctcccag	atagcctgat	gcctgaacac	ctgagagtgc	tggtgagcc	11580
cagggcacac	tcttgcacac	acccaaagca	ggaccacgct	cgagagactc	cacgtggggc	11640
cgatgtggtc	catgccaga	ttcttccagt	tgctctcatc	atgttctttc	tttttaattt	11700
tttaataaatt	tttctttctt	cttctccttt	ttttttttta	gatggagtct	tgtctgtca	11760
cccaggctgg	agtacggtgg	cgcgatcttg	actcactgca	acctccacct	cccaggttca	11820
agcctcctga	gtagctggga	ttataggcac	ccaccactac	accaggctaa	tgtttgatt	11880
tttagtagag	acggggtttc	gccttggttg	ccaggctggt	ctcgaactcc	tgacctcagg	11940
tgatccgccc	gcctcggcct	cccaaagtgc	tgggattaca	ggcatgagcc	accgcacctg	12000
gccttggtca	tggtattttc	agagctgttt	gtttgtttgc	tcctgatccg	gattcgggtc	12060
gccattgagc	tcgtagtctc	cttggtgggtc	cctgttaatc	ggggagtccc	tcagcctctg	12120
tcacctccgt	tacctggtcg	cttctggggg	gtgcagccca	tcagctgag	tcgggcctcc	12180
gtgtgggaca	ggatttcctc	atgatgagcc	ttggggagcc	tcggaggaga	ctctgcagtg	12240
ccccagggtg	tggactgcc	cttctgatg	acgtgactt	gactcactgg	gttaggggga	12300
tctgtagggt	cctctgttgg	atgggcacct	cttctttttt	ataaccaaga	aatgcccttt	12360
tcccacttat	tgtgaggagc	ctgccttagt	tccgcacaat	gtaggcagag	ggaggatgca	12420
tgctcttcat	cctcttcatc	tcccgaagg	tgtccagggt	ccagcaccct	agcccgccct	12480
gctggggagg	gggctgcatc	agccaggggc	tgtggtgaga	gggtgggcag	gacagagatg	12540
ggctccgagc	aggggagcct	gggcagcagg	gagaagactg	ggagctgag	gggctgccag	12600
tgcaaaggcc	ccaagccagc	tgctgaggtg	ggtgtggccc	tggccaggga	ggctgaggtg	12660
tcaatacagg	ggctctcct	gggcttggtg	cttctgaaag	ggccttctag	ctgtaagcag	12720
cagtgagggc	acaggaagg	atggtggcct	cagggtggcc	tattcagggc	cccagtgagc	12780

catgggaggg	cgggagtttc	cccgttcacc	cagcatggcc	actccggccc	ctgccctaga	12840
gggccaggaa	gctcagccat	aggggctggg	gcagctcaat	caagggccct	gccctggaag	12900
ggtccaggcc	tgcagcccag	cccccaactc	cagccccgag	cacctgcctc	cagcccatgg	12960
tgcagggcct	gggccccctc	gccgcaccca	ggcca a ctc	aggcaggtgg	agctgggtcc	13020
ctcaccacgc	atgcctcagc	gctctcctct	cctcctgggg	tctcctgccc	tgaagagagg	13080
gttgggagtg	tgggtggatt	taggggcgcc	cagggggcag	cacctgatgg	gcagggggtg	13140
ctctccggga	agatggagag	agcagagcca	cccccgaggc	aggaggggtc	tgcgggatgg	13200
gaggggcctc	tgtgatgagg	gctgactgca	gggacaggga	agggggtagg	gcaagtgcct	13260
ttcattctca	acttttttga	ggtatgtggt	ctctgtcctc	cctcagcttc	gggatgtaat	13320
ccctgcgttt	cagaccccag	ggtcagttgt	acacacctgc	aggcgtcatt	ctctctgtca	13380
cagacccgct	tgggtgggca	cccatgtgag	ttctctgtct	cagtagctgg	gcctgggtcc	13440
accccttcog	ggggtgtggc	tctatcccag	ctcggtcctg	cctgggtctc	tttccctctc	13500
tgagcgcttc	agcagcccac	taggtcgggc	actggtgccc	tgggggcatt	gctctgtgcc	13560
tactcgcccc	cacagggagc	tgaaacacag	ctgctgccaa	tgggatgtgt	ccacctggca	13620
ggcgtggggc	ccttctcggc	agtccacccg	gccacaccgt	tcccgggcag	gcgtggggcc	13680
cttctccgca	gtccacccgg	ccataccatt	cccgggcagg	cgtgggcccc	ttctcggcag	13740
tccacctggc	catactgctc	ccaggcaggc	atgggcctcg	gcagcttcag	gaagagcccc	13800
actgctgccc	aggaggagcc	tgtagtgtat	gctgggtgct	caccattcct	gctcatgtac	13860
ataagagagc	aggggcaaaa	tctaaaagtc	cacacagcat	gagacaaacc	aggggctggc	13920
cgtaacacac	ggtgtgcagg	ccactacgcy	cgaaggtgct	gagaacctcg	tggggtctgc	13980
gtccggaggc	aggtgggtgg	tggctctggg	tgggctacag	gctgtgaggg	gatctgggt	14040
gtggaggggg	tgctctagac	tactgttct	gagggaaacac	acctgtaatc	ccagcacttt	14100
tgggggccga	ggcaggcaga	tcacttgagg	tcaggagttc	aagaccagcc	tggccaacat	14160
ggcaaaaccc	ggtctctact	aaaaatacaa	aaaaattagc	tgggcatggg	ggtccacgcc	14220
tgtaatccca	gctacttggg	aggctgaggt	gggcaaatta	cttgaacccg	gggaggggca	14280
gaggttgtag	tgaagtgata	ttgagccact	gcactccagc	ctgggtggca	gagtgagact	14340
ccatctcaaa	aaaataaata	aataaaataa	ataaaacaat	gccccatgat	tgagcatgtg	14400
gcatgtgtca	ggtgctgtgt	gacacatctg	ctgcagtaac	atttaatgtaa	agtaataaac	14460
agaaatatgc	tgcattgtat	gaaacacata	gtgtaatata	aatgcattat	atattagaaa	14520
attatataga	ataataaaca	tctacagcct	gacattcata	tgttaaaaag	attagaataa	14580
taaaaataat	tggatatttt	ttcaggaaaa	ataatataaa	ataatcacac	aaactaatat	14640
aaaagcagtt	aatactttga	ctcatttaat	ccttaactcc	ccagttcttc	tgaagttggg	14700
ggccagcgag	gacctctgt	ggtgactctc	tgtctgaatg	caccaagact	gagctcgggg	14760
cccagccacg	caggatctga	gcagtgtggc	ccagagcggc	ggcgggcggg	ccagaggggt	14820
tactcacggc	cactaggatc	caaaagaacg	tactgagag	gtgtggcct	gaaactgagt	14880
catccacgtt	cagggcaatg	atccccccga	ggacggcaga	gatgcctgcg	attacctcga	14940
cgacctggag	gggacaggac	agcatcggt	cataagggaag	tggagacacc	cccagattcc	15000
cagaatgcac	tgtgcagaca	tggaccccc	ggagcagggg	ccagtgggct	ggccccagat	15060
ctaaccgtgg	aggagcccac	ctggatggac	ccccagcctc	acctggcccc	gacccctctc	15120
gccctcagct	gcggcttttc	acgtccctcc	tggagtaaaa	tagccaaaga	ggtgtttccc	15180
ccactgctgc	ttttgtccac	agaaactgag	ggtattgacc	tgacagtggg	gagggcagaa	15240
aaccaagacc	ctcagactcc	cttccctgtc	tcacagtgtg	gcaggcggcg	gtgctcagac	15300
cctggacccc	atcgaaggga	ctcgggaaaa	caggcctggg	gcagaagtag	cttcccatag	15360
gacacaccca	cccgtgccat	gtgggtttgc	cattgccacg	gcaacactgg	acgtcaccac	15420
ccctttccgt	ggcaatgatc	caaccacctg	gacgttagca	ccccttttct	agaaatttct	15480
gcataatctg	ccccttaatt	agcatatact	taaaagtggg	tataaatagg	aggcagagct	15540
gtctctgagc	tgtgtctcga	ggcacctgcc	ggttgagag	ccctgctata	ctgccactgc	15600
aaacaaaagc	gctgtctgtc	acctccagct	cgcccttgaa	ttctttcctg	gacaaaagcca	15660
agaaccctgc	tggcctaagc	cctggttgtg	gactatctg	cccggcacca	tcaggggccgc	15720
aaccagcacc	gccagactca	gggagggggc	gcaaccagca	ccgccagact	cagggagggg	15780
ccgcaaccag	caccgccaga	ctcagggagg	ggccgcaacc	agcacccgca	gactcagggg	15840
gggctggggg	agaaacacac	gcccgaanaa	ctgctcccgt	gaaggatctc	tgtgagctgc	15900
aaaacacagag	ctgtggccag	caggaagcc	aggcataagg	agtgggccag	caagggtctg	15960
ggggccggaa	gggacctggg	cagccaggcc	ttgctccag	aaggcacaaa	actccagatg	16020
cacaaataaa	gctgaattcc	cagccaggca	cggcggctca	tgcctgtaat	cctagcactt	16080
tgggaggccg	aggcagacgg	atcgtgag	caggagtttg	agtacagcct	ggccaacatg	16140
gtaaaccccc	tctctactaa	aaataacaaa	aattagctgg	gcgtgggtgg	gggcacctgt	16200

aatcccagct	actcgggagg	ctgaggcggg	agaatcgctt	caactcagga	ggcagagggt	16260
gcagtgaacc	aagatcacac	cactgcactc	tagcctgggc	aacagcagga	ctccatctca	16320
aaaaaaaaag	aaaaaaaaaa	aagaagcaga	acggaaatgg	aacctagag	aggactgaaa	16380
tgctaaataa	ggggaagtga	aggcactggg	aaacacacac	agacacagtc	aagcacacag	16440
gaggctgtcc	cattgttggg	gtaaaaaggg	aaaatgtcac	taaatgtcac	aagctagaca	16500
acaaggccaa	ggcggaggga	agggggacag	accccgcatg	gtctgtttat	caaggagcgt	16560
attagaatat	gaagggcaac	ccccaaaaga	ataactgaaaa	atttcccatc	caaaattaga	16620
gggaaaagga	aggacggagc	ctctgccaat	tcaaaagaag	gcagggaagg	agggaaaaag	16680
gcaaaatcag	ggaaaatgga	aaactcaaaa	gatggtaaaa	ataagtagaa	attatcagt	16740
aataactctc	agaggaaatg	ggctacattc	aaaaagctag	ggagagagaa	tgacaagata	16800
aagaacaaaa	tacagttacg	tgctgcttat	aacaattata	ccaaagtaca	aggcaagaaa	16860
agttgaaagt	aagaaggaga	aagaggccag	gtgcggtggc	tcacacctgt	aatcccagca	16920
ctttggaagg	cctgggtggg	tggatcactt	gaggtcagga	gttcgagacc	agcctggcca	16980
acatgccgaa	accctgcctc	tactaaaaat	aaaaataatta	gccgggcgtg	gtggcatgtg	17040
cctgtagtcc	cagctcctca	ggaggctgag	gcaggagaat	tacttgaacc	tgaggaggcag	17100
aggtggcggg	gagctgagat	agcaccactg	caccccagcc	tggctgatg	agtgagactc	17160
cgtctcaaaa	aaaaaaaaaa	aattcctcgg	ggacaacagt	gtcaactcac	ctacggcagt	17220
aacaaactcc	ccctaaaaat	tacaggacac	cagcagcacc	tttcgcgata	aggaaggtta	17280
ttaccaatga	taccaataac	agactagagt	ctccacagat	gaggcgcacg	ccgccatgcg	17340
gtgtagacag	ccaactcttc	gccaaactcg	aatcgaaaacg	tgacgtttta	tccagctcca	17400
gtcacccccg	acagagtatg	agagaaaaaga	gaaaagaagg	aagttttctt	actgagtaag	17460
atttcaggac	ccgagcagga	aatggcactt	cgtccagaat	gttggcgctg	tcagacatgg	17520
agccctacga	agaaacagaa	ctgtcacccc	gggtgcacgg	gcbaaggac	tcagcactgc	17580
cgctggcatc	cggcccgccg	gggcagtggg	tcaggtcagc	ctgccgtgta	gatgcgagac	17640
cgccttgagg	gcgcccgtgg	atctttgggg	ttgaggaaa	gttcacacac	attgtccttg	17700
catatgaaaa	ttagcagatg	tggtgtctcc	tggtgatccc	ctggggacga	gcactggact	17760
gagtcaggct	tagggggagg	ggagggtaca	gcactctgtc	tcacctccct	gtagccagcg	17820
gccgcccaacc	cctcacccag	ctccagagcc	cctcctggcc	ggggtttctg	agaccagga	17880
gagaggggtc	tcattgggaat	gccctggagc	agcccagatc	ggccctccga	gggtgacgct	17940
gagaccacc	tcgctcacc	tggggtgatg	cctctgcac	ccctgcctcg	cggggtcaga	18000
agctgcaccc	accttctttt	tcttgcatgc	ctcctcgctg	gaccgtgcag	cgatgatcac	18060
cgtggccgcc	atgagcagct	ccagcaggag	cagcaggatg	aggttgaagt	tgatctgcca	18120
aggggcacac	acgcttcagc	accgggcccg	cctttctcac	gccaccgcgc	ttcagcgctc	18180
accggaccac	ctcacgggca	ggctgcgcag	gactctcagc	cacggtcccc	acttttccca	18240
tccagggcca	gctgtgaggc	actgtgggct	gcacactctc	ctgcctcaca	tgggcctttg	18300
gggtctttta	gttttttaaa	ccattcttag	tgcaaaggct	gtacaaacac	aggccagggc	18360
tggatttggc	cttgggctct	ggtctaccga	cacattctg	aacgctcctt	gttcccacaa	18420
aagccttcac	ggaatgttta	gagtagcttc	atgcattgatt	gtcaagcact	gagaacataa	18480
ggttttttgg	agggtaatga	aacgactgca	ggccctgacc	gtattggcag	tgacatgaat	18540
ttatatgtgt	gttaatatct	atagaagcat	acatttttaa	aagtcagtgt	agctgtctga	18600
caattttttt	tttttttttg	agacggaggt	tcgctcttgt	tgccaggct	ggagagcaaa	18660
tggcgcaatc	tcggctcacc	gcaacctctg	cctcctgggt	tcaaatgatt	gtcctgcctc	18720
agcctcccga	gtaagctggg	gttacaggca	cctaccagca	cgcccggtta	attttgtatt	18780
tttagtagag	aggggtttct	ccatgttgtt	caggctggtc	tcgaactcct	gacctcaggt	18840
gttcgcccc	cctcggcctc	ccaaagtgtc	gagattacag	gcgtgagcca	ccgcgcccg	18900
cctgacaatt	tttaaaatc	atttaaaaaa	gaaagagtgc	agaaccacat	tcaactaaaa	18960
acagagcctc	gaaatatatg	atgtcataac	agagccacag	gaagatgtag	atatatcagt	19020
agaggtgggg	aaggacttga	aacacttttc	ttagaaaactg	acagatcagg	cagagggagg	19080
cggctcacgc	ctgtgatccc	agcacttttg	gggaccgagg	cggttggatc	acctgaggtc	19140
aggagtcca	gaccagcctg	accaacatgg	tgaacccctt	tgtctactaa	aaatacaaaa	19200
atcagctggg	tacgggtggc	cacgcctgta	atcccagcta	ctcgggaggc	tgagacagga	19260
gaattgcttg	aaccogagag	gcggaggttg	ccgtgagccg	agatggagcc	actgcactcc	19320
agtcgtggcg	acagagcgag	actgtctcaa	aaaaaaaaaa	aaatgacaga	tcaaaaagac	19380
aaaagcataa	ggagaactct	aaaattcaga	aaagtgtgac	attaaccttg	tttttatatt	19440
tctgtatttc	tgggtgctttg	acctctggct	ccttcctgat	cctgaagaga	cagctcctcc	19500
cagggccagc	cgacagctac	agttagtaac	ttgcctctga	gcagttcaga	tacaagccac	19560
tgaccagggg	accacacccc	atctgctctc	cgtcttaata	aagaagcgtc	acaggccggg	19620

cgcggtggct	catacdgta	atcccagcac	tatgggaggc	cgaggtggat	ggatcacctg	19680
aggtcaggag	tacaaggcca	gcctggccaa	catggtgaaa	ccttgtctgt	actaaaaata	19740
caaaaattag	ccgagtgtgg	tggcacacgc	ctgtaatccc	agctactcca	gaggctgagg	19800
caggagaatt	gcttgaaccc	gggaggtaga	ggttgcaagt	agccgagtg	gcgccactac	19860
actccagcct	gggcgacaga	gcgagattcc	ttctcaaaaa	caaaacaaaa	caaaacaaaa	19920
aggcagtgtg	ggtgttccca	ctgggtccct	ctgtgtctgc	tcatttttcc	tgcccaacga	19980
gagtggccag	gacatactca	agcctccctc	agctttcccc	aatcatcaag	tgcatccac	20040
atgtcacaca	aagcaggagg	ccctccctgc	agtatctcgg	atgaggtcct	ggtttccttt	20100
gggatttttg	tctttttttt	tttttttttt	tttttgagac	ggagtcttgc	tctgtcttcc	20160
aggctggagt	gcagtggcgc	catctcggct	cccacaacct	ctgcccccta	caatttcaca	20220
tttttgttta	gagggtgcatt	gaacaactgt	cttacacaga	tggatgaaa	catagtatta	20280
tgctactggt	aatttttaag	gactgttgga	aaagacattg	tttaccaata	aatctgtccc	20340
gcagaatcac	gagacttcaa	taaagacaat	tattttcttt	ggatgcataa	atctctcaac	20400
tttagtcaaa	ctcacgagct	gtgaataaca	tttaccacct	atttccagct	caacaaacat	20460
ttgctgacac	cattcgtggg	agtggggctg	tgggtgtcag	gcgtctgcgc	gaagctcgtg	20520
tgaactcacg	tttattgctg	atgggttcag	gactagtttg	catccaaacc	aaattaaaca	20580
cgtagtggtc	acagcaaacg	tggaaacaaa	caatatctga	aagttgggaa	tctgaaaaac	20640
aaggcaggag	gggttttcc	tctttgaata	ataaaagaaa	aaaggttaaca	gataaaccac	20700
acttcaggcc	attcactaaa	aattatccct	attaggacat	aatggtgggg	agtcctgcgt	20760
gctcagcccg	ctctccctc	tgtgcggcaa	aggctgggct	gggcaggagc	tttactgtct	20820
ggggggcaac	ctcgggggcc	cctctcggtg	ccacaacgtc	tgtgcgtggg	cacacacaca	20880
agcacacatg	ggcacactgt	ctgtcagccc	ctccggcttt	ctccctggca	gaggctgcct	20940
gcaagctaga	ctcaccacat	tggcggtcct	cctggagacg	gtgaagctca	caattgccga	21000
ggggatgcac	tggaatgaaa	ccggaatccc	atgagcctgc	cgctcacctg	agcaactgag	21060
actctgaaat	actctaacat	ttgcgcttcc	agaaggatct	gaatcatatt	cacaaaaacag	21120
tgttgccagt	ccatgaaca	cagtgggttg	gcttgactag	aaggccccc	ggtacttctc	21180
agttttaatt	ttttcttgag	atggggtctc	actctgttgc	ccaagctgat	cttaactttg	21240
ggctcaaatg	atctgttcac	ctcagcttcc	caaagccctg	cgattacagg	catgagccgc	21300
tgcgcccac	ccccaggtac	ttcaaaataa	tttattctga	aagaagtttt	tatttttctg	21360
atgtgctaaa	aagatatttg	ttaatgaagg	ctcttctagc	tggataagct	ttgaagccta	21420
gaatgtaact	cacgcaggca	caagacctgg	tctttgtctg	aaattaccca	aaaaaggaaa	21480
aagtatcagc	cgggtgcagt	ggctacacc	tctagtccca	actactccgg	aggctgagct	21540
gggagatct	cttgagccca	ggagttcgag	gctgcagtga	gctgtgaata	ctcggtgata	21600
gagtgaagcc	ttgtctcaaa	aaaagaaaga	aagaaagaaa	gaaagaaaga	aagaagaaa	21660
gaaagaaaga	ggaggtctgg	tgcagtggct	cacacctgta	atcccagtac	tttgggggc	21720
tgaggcggtg	ggatcagagt	caggagtgtg	agaccagcct	ggccaacata	gtgaaacccc	21780
atctctacta	aaaatacaaa	aaaaattagc	tgggcgtggt	ggcgggtgcc	tgtagtccca	21840
gctactcagg	aggctgaggc	aggagaattg	cttgaaccca	ggaggtggag	gttgcaagtga	21900
gcagagacgg	cgccattgca	ctccagcctg	tgtgacagag	caagactccg	tcaaagaaag	21960
aaagaaagaa	aaaaagaaag	aaagaaagag	gaaggaagga	gcaaaggaag	tagcaagact	22020
ctgcatgtga	gggaggcaga	aaggagtccc	acagccttct	tgtcctcagc	cttcttgtcc	22080
ccacagggcc	acaccaaggc	taggagtcca	gggccaggga	gggaggttggg	acgtcaggg	22140
acagggaggt	ggatggagtc	gggccagccc	aggcctgtgg	cccttgccgt	gcagggcctt	22200
gctcctgcag	ccatgggacc	ccgggccctg	agtcgggggt	gcaggccctg	aggggctgag	22260
cacagcagtg	ctgggtgagg	aggcagaaga	agccccgtcg	gggcctgagc	gaggggcaga	22320
gctagggcca	ggacagccag	gctcagctca	gcaccactc	aggtgccacg	aggggcccag	22380
gtagagaaga	aaggccgggg	gcagggccga	gtggggccaa	ggctgggcgg	gggtgggcac	22440
ttgcccatat	ccggcagccg	ctgaggctga	aggggcacag	ctcacagctc	caactgggaca	22500
agggcggtc	ccatggtgag	gataaaggcc	acggagaagc	ttccgagag	ggcagcagag	22560
tgggacgggt	cacctgcccc	aaagggtctt	gttctaagg	agcagagacc	caggacagca	22620
cggggcgggg	catccacttt	gtttttaaga	catttcgggg	gcgctgctgg	ggacagtcac	22680
caacagtgtc	cctagagaaa	gggcaggggc	cagagaccca	gcaggcatgt	ggaagcgaga	22740
ggagggggaga	gctcgggacc	agctgaagca	ggaggggcgt	ggggtcccg	gcttgcgggc	22800
cagaggggca	tgggttcg	ggcttgcggg	ccagaggggc	atggggtgcg	cggcttgcgg	22860
gccagagggg	catggggtcc	atggcttg	ggccagagcc	caggggtcag	ccagcatggt	22920
gctctagctg	ccgggacgct	ggggaggcag	tggccggggt	tcacagagga	ccaggggaca	22980
gcggttgtct	gtcctccctt	gctctgagga	tcagtggtg	cctccaccgg	ccttggcact	23040

gtgtaagttt	ctaaaaaacac	aacatgaagc	tttgggagga	tgtggggcac	aggteccagt	23100
cccttgaggg	cagatgctgc	cagctctggc	aggacgcagc	cgcaggctca	gaatcaacac	23160
gcaattccct	gcacaggcgt	ctgcagagca	aggttcaggc	ctgcttcata	agtaattctc	23220
aaaggtgatg	aactctacgt	gaaactaaag	tcatatgaag	agttttttgt	ttttttcttg	23280
ttgtttgtgt	tttgagacga	agtttctact	tcattgcccc	ggctggagt	cagtggcaca	23340
atctgggctc	actgcaacct	ccgcctccca	ggtaaacgc	attctcctgc	ctcagcctcc	23400
tgagtagctg	ggagtacagg	caccaccac	cgcgccagc	taatttttgt	atttttagta	23460
gagatgggg	ttgtccatgt	tggtcagact	ggctcacaac	acctgacctc	aggatgacca	23520
cccacctcca	ccctccaaag	tgctggcatg	acagccatga	gccactgtgc	ccggcccata	23580
tgaagagggt	tgaatgagg	acaggtgaca	gaaacctgca	catctcagaa	caaagaaacc	23640
agagcacgtg	ccggcgagct	tgggcactgg	cagaggcgtg	gaggaagctg	cttacagagc	23700
ctgcagcaca	gcgcaagtaa	tccatctcag	ccgggaacac	gttccccagg	tacagcgaaa	23760
accccgaggt	caccaggagg	cagctctgga	agacagcgac	agaatcccag	gttacaacgc	23820
gccccgtccc	caggctggac	cctgacctt	caacttctgc	ttcactgtct	gtgtattgtg	23880
gactcaccca	cgtccccag	catcaaccac	acccgcacct	gggaccgcc	catcctggac	23940
tcctcctgta	ggacagacgc	agccccgccg	cagcccagga	catggaccag	cctccccag	24000
ccatgtcggg	gcatggaccc	cccacgtgt	tatctggagg	agagaagaaa	ggggatctgc	24060
caatatttag	agcaaggaat	ggcacctctc	cccacaaaat	actcctgccc	caacatgttg	24120
tgcgtgcagt	cttcagatc	ccacaccac	gtccagacac	gagactggaa	aacaactgcc	24180
catccccctc	cgtctgcaga	acdaatttc	cagatctgga	agaagatccc	tccaggcagg	24240
ggctccaggc	ccaggggctc	ctgagcagg	aagaccctag	caggaggcag	ggaggggtgt	24300
ctctctcacg	cacagcactg	caggggtgcg	gtggggagg	ggctctctct	cacgcacagc	24360
acccccgggg	tgagtctgag	gggagtcagt	atcaaaggctc	actgggaccc	agggtcctgg	24420
cagaggaagc	gaggtctggg	gcagagggga	tctggcctgg	gcgggggagg	ggctgcgacc	24480
aagtccagg	caccagggtg	aggagggcag	agcccggaga	tggccaccac	caccggggag	24540
ccgcctctgt	ccccagctcc	gaggcagacg	cctgtcttgg	tggggcatgc	tcaggccacg	24600
ggaggtgggc	aggaccadg	tgggtgctgc	aggggtgcc	ggcggaggcc	agggcacagg	24660
gaggggagaa	atcacagcct	ggatctcatt	ctcagcccaa	gctacacgga	accgggggtc	24720
cctgcataga	ggcctgtcct	gcagcatggc	tctgagcagc	tgacacact	caggcccaag	24780
tggctcctcc	aatcatctct	gtgcccacga	ctgtgcagg	aatggccag	accccaggga	24840
aatccctcgg	acatctggcg	ctgcccgtcc	accccagacc	tgttcctttg	ttccccagct	24900
ccctcccagc	cggccccctga	ggccctccct	aggaggagga	ggtccctgag	gttctctctg	24960
tgagggccga	cctgaaggcc	tgagacgcct	cctcccacct	ttgcaggatga	cccctcagag	25020
gacctctggc	cccagagcc	gagggtcagt	gagactcctg	gggcccattc	atggccctgg	25080
gactgtccct	accctgggtg	gactaagcca	caacctggag	cagctcaagg	ctggcacaac	25140
agacacccat	aaattaataa	aaataattgt	gaaaacacaa	gcaaaacaag	ctcgtcggca	25200
tccaagagtt	ctgcagcagc	agggttagtc	tgagagttgc	tcttctgtc	ccacctgggg	25260
ctccaggggc	ctgcagtcg	tcaccagagg	gaccagatgc	tcgtggccct	ccaagggtct	25320
agtgtggagc	tactcacccc	catcagcaca	gagaagaccc	acgtcttgtg	gctgaagcag	25380
gggggcagtc	ctcttcagag	ctgcaggtcg	ctcggtctcg	cgctggggc	atagctggcg	25440
gggtcttgcc	ggcccgcctc	cagcgtgggc	atccggtcat	aggccagctc	ctctctgaat	25500
ggctcctggg	tcatggcact	tggggacacc	acagctgtgc	tgaatgtaca	gccacgtgtc	25560
acpagttctt	tatctggaat	aaaattatca	tgggttttgg	ccactctgag	gaaacttcaa	25620
taagttgttt	ccaagaaata	ttttttaaca	aaagaaaat	tgttcatact	gaagtgtctt	25680
aaatttgaag	aagaaaatga	gcacttgaat	ctaaaagtga	aaaagaaata	actttcctag	25740
aaaaacggac	ctgaatagtc	tgggttcagg	gtgagattct	acactttaaa	tgcttcattg	25800
atccatctgg	gccctccagg	tgcaacacct	gacaacatcc	atcggaact	tcgtccatga	25860
acacatcacg	ccggggactc	aagcacgtta	aactgtctca	attggtagct	aaacgagaga	25920
ttgcaaaaaca	tgctctact	caacggctta	atgtctgagc	acttacctcc	cccgtgtctc	25980
tgccgtttgg	agcactggtc	tctgggtgag	ggacttccag	caagaagtat	tcacaaatga	26040
aacaaaagct	cagcaaacct	gagctgaagg	cgggggaagg	agagctgctt	cctgaatatc	26100
aatgagggga	ggaatcgggt	ggatcgtaga	aatgtttcgt	gttggttgtg	taaaccactg	26160
cctcgg						26166

<210> 1910
 <211> 3878
 <212> DNA

<213> Homo sapiens

<400> 1910

gggaccatct	tcctgtggat	cttctggcct	agcttcaatg	ctgcactcac	agcgctgggg	60
gctgggcagc	atcggaacgc	cctcaacaca	tactactccc	tggctgccag	cacccttggc	120
acctttgcct	tgtcagccct	tgtaggggaa	gatgggaggc	ttgacatggt	atggggaaga	180
ggacttcaga	gaggcagagg	gggtggcctg	ggcaggggag	gagaggctctg	agaccctcaa	240
gaaagattct	cccggggaac	agataagggc	acaggcatag	gggctccatc	tgtgctgggtg	300
gctatgggat	cagaatggga	ggcgatatgg	tagcaggaca	atgagagggtt	agatggcaga	360
gggacttcca	gaagcagtag	gtgtcactgt	ggtgtgtagg	gttgggttgc	tgtgggtgtg	420
acaatctgaa	agggcctcca	acaccttgct	cttcccttag	gtccacatcc	aaaatgcagc	480
gctggctgga	ggggttgtgg	tggggacctc	aagtgaatg	atgctgacac	cctttggggc	540
tctggcagct	ggcttcttgg	ctgggactgt	ctccacgctg	gggtacaagt	tcttcacggt	600
atagatgcct	cttggagcct	gggagaaca	tggagtcttt	ggtaccttcc	ctccgcctc	660
tccaacagga	tgagggtggtg	gggagtgggc	acaggagact	catgatctgt	cttgccctcc	720
agcccatcct	tgaatcaaaa	ttcaaagtcc	aagacacatg	tggagtccac	aacctccatg	780
ggatgccggg	ggtcctgggg	gccctcctgg	gggtccttgt	ggctggactt	gccacatg	840
aagcttacgg	agatgggtga	gtttcctccc	aaccctgact	gcagtcgtca	tccatctgga	900
atgacctctg	tcattctctt	tactgtgtg	tgaccaagaa	aaaagaatga	attcattcat	960
tcaccatat	tctgggagca	aaggaaattg	gagttaacaa	aaccaacca	gaaactgcct	1020
tcttggtcct	ctatcaagt	cagcagaagg	tcattggaaca	aatgacttca	agtagtggtta	1080
cttgttactg	aagggtcagt	aagagataat	gacctttagg	atctattttt	gcacatcaag	1140
ggtgggcaaa	agcaaccgc	aaatggagtc	ttaaaagggtg	cctaggtgtc	tgctggccta	1200
caagggtggg	aagggtgttc	aggctgtggg	cctggcttga	gcagtgccctg	ggaggtgaga	1260
ctcagcctgg	catgcaccct	cgagaccctc	ttggccactt	cctgttcccc	agtgtgagtt	1320
ccagtgccat	gagcagccct	ggccccgggc	tgcacccctc	tctctcccta	cccctgcctt	1380
tctctatct	ggtctccctg	cagcctggag	agtgtgtttc	cactcatagc	cgagggccag	1440
cgcagtgcc	cgtcacaggc	catgcaccag	ctcttcgggc	tgtttggtcac	actgatgttt	1500
gcctctgtgg	gcgggggcct	tggaggtgag	taaccttgga	ttttctagag	gaaggggcat	1560
gggatcctat	aagcctgaca	tgaattcatt	cactcataga	tatttatgga	gcatctactt	1620
tgtgccataa	agtagggatt	gggttgtggg	ttaaggggtg	accacctcc	tgcaggcaca	1680
gaggtgcatg	caggtgcttg	ctcctttctg	gtgccgaggg	cagctgggga	gtccgcgagg	1740
ggtgagcgag	gccctctctt	atgggtctat	gcttgctgt	gctgtccct	ctgcccacta	1800
gaggaagcc	caacctcagg	ctgaggccta	gaagggatg	gctgcgccat	gtggggcagg	1860
gacaaggagg	ggaggaatg	gcctgccact	tccagacccc	agtgcgaaa	ccttccacag	1920
aggcacactg	tccatggccc	tgggtcaggc	agtcgctctt	catgtttggc	cttagtcttt	1980
ttggccttca	aaataaaacc	tgattcagca	tccccctctg	ctcccggtt	caagccattc	2040
tctgcctca	gcctccgagt	agctgggact	acagggtgc	gccaccatac	ctggctaatt	2100
tttgatattt	tagtagagac	gggttttcgc	catgttgccc	aggctgggtc	cagactcctg	2160
accttaggtg	atccgccgc	ctcggcctcc	caaagtgtg	ggattacagg	cgtgagccac	2220
cgtgcctggc	ctagaatcta	cactctttta	aaaagagatt	cccagggtgat	ttgattgcat	2280
gttaacgtct	gcaaagcact	aggttagatg	tgaatacagg	caccgcgccac	catgctgggc	2340
ttattattat	tattttgtat	ttttagtaga	gatggggatt	cactgtgtta	gccaggatgg	2400
tctcaatctc	ctgacctcgt	gatccgcccg	cctcggcctc	ccaaagtgt	gggattacag	2460
gcgtgagcca	ctgcgcccg	cctatttttt	ttttttttt	ttttttgaga	cggagtctcg	2520
ctcttgtagc	ccaggctgga	gtgcaatggc	atgatctcag	ctcacttcaa	cctccacctc	2580
ccgggttcaa	gcgattctcc	tgccctcagc	tcccaagtat	ctgggattac	aggcgacccc	2640
caccacaccc	ggctaatttt	tgtattttta	gtagagatgg	ggtttcacca	tgttgccag	2700
gctggtcttg	aactcctgac	cttaagtgac	ccatctgcct	cagcctccca	aagtgtcggg	2760
attataggcg	tgagccactg	cgcccgccca	caataagcat	ttcctgtgcc	cctcctgtgt	2820
gggaggccat	agaaagctca	gcagctgtgg	ttcatgatgg	aatcagggaac	tggctctatta	2880
ccaactgcac	acacttgagc	aaattattta	acttctctga	gtcttgtttc	tttgtttgta	2940
atacaggaat	aatattggcc	ttgcagggtt	gttggtgatta	ctcaggaaaag	caagactagt	3000
caagcacttt	gcacagggcc	tggcacatag	tagatgtctca	acaaatactg	ctgtgttttg	3060
cctgcacagg	catcatattg	gtcttatgcc	tcttagaccc	ctgtgccctg	tggcactgg	3120
tggcacccctc	ctccatgggtg	gggggcagag	aagcctcaca	gacccctccc	taccaccacc	3180
agggtcctg	ctgaagctac	cctttctgga	ctccccccc	agactcccag	cactacgagg	3240

accaagttca	ctggcaggtg	agacattgct	gggctctcac	accctctgag	tctcccttcc	3300
ctgcctcgcc	tcctgtggcc	cagttgacct	tcttcccttcc	ttgctgctcc	ttctcctctg	3360
gggtacaccc	ctgaactgtg	gcttccaggc	tcctggagct	accctttcac	ctctaccac	3420
tcctgccttc	caggtgcctg	gcgagcatga	ggataaaagc	cagagacctc	tgagggtgga	3480
ggaggcagac	actcaggcct	aaccactgc	cagcccctga	gaggacacgc	tcttttcga	3540
agatgctgac	tggctgctac	taggaagtgc	tttttgagct	ccatttctc	cagctgcaag	3600
aaggagacca	tgagccagaa	ggaggcccct	ttccacaggc	agcgtctcca	caggagaggg	3660
ggcaacagga	ggctgggaaa	tgggtggggag	tggggccgta	actgggtaca	atagggggaa	3720
cctcaccaga	tgcccaaccc	gactgcccta	ccagcctgca	catgggtaga	agaggccaaa	3780
ttgaggcacc	caagtgatcc	actggcccca	cgtcacacag	ttacagtga	gccaagcca	3840
ggcctggttg	agggtgataa	acgccactgt	ctctaagg			3878

<210> 1911

<211> 14918

<212> DNA

<213> Homo sapiens

<400> 1911

gtgctccatc	gtgggtgggg	taaagcgggg	tgggagccga	tggtccggtt	cctgaaggca	60
caggccagct	tagcctgggt	gctcagagga	cctcggtgg	ggtacacgtt	tgggggctgg	120
gagaccgttg	ctgaaggcag	cgatcatgtg	gcggcggcac	taggcggagt	cagacggtca	180
cgtgattggg	aggggatcac	gtgacggagg	gcggctgagg	agcgcggggg	ggctgccttt	240
aagtcacgtg	acatgaggag	aggtgggagg	gtacctggag	gaagctcgcg	gcgtcgggtg	300
cgggtggcgcg	cggcggccgc	tgagaccggg	gctttgagtc	gcaccccgcg	gcccgcctcc	360
cgcgcgccacc	ctcgcagatc	cgtgcttttt	cccccttgc	tcttcccgt	actgggtcag	420
tcctgtccgc	gctcgcgcgt	cggtttgagg	gtgtgcgcag	gcgcggcagg	ggccattagc	480
cctttgggtg	ggcggtgagg	cccgggagcg	cgcgggcgag	accatggcgg	gtagcagcac	540
tgggggcggg	ggggttgggg	agacgaaggt	gatttaccac	ctggatgagg	aagagactcc	600
ctacctggtg	aagatccctg	tccccgccga	gcgcatacc	ctcggcgatt	tcaagagcgt	660
cctgcagcgg	cccgcggggc	ccaagtactt	tttcaagtct	atggatcagg	atttcgggtg	720
agcgcaaggc	ctagatagga	ccggcggggg	ccttgctaga	gtggattggg	cgacatggag	780
gggcacacgt	ctactttggg	ccacactggg	atcttctg	ctatgggtga	gcagattgta	840
ctatgctgag	gtaggttgac	tatcccagga	tggaacaagg	tatgcttgga	tagattgagg	900
cacacggaca	gactagata	tcctaaacca	gattagacaa	gattaggctt	tactggaata	960
ggtgggggca	tactggttta	tggttgagta	ttctagtctg	tactgagtaa	attgatccat	1020
tgtctggttg	tttagtacgt	tctcaggagt	cctgtaacgc	ctgtaatccc	agcactttgg	1080
gaggctgagg	cgggcggatc	acgaggtcag	gagatcgagg	ccatcctggc	taacacgggtg	1140
aaaccccatc	tctactaact	aaaaatacaa	aaaattagcc	gggcgtgggg	gcacgcgcct	1200
gtagtcccag	ctacttgggt	ggctgaagca	ggggaatct	cttgaacctg	ggaggcggag	1260
gttgacgtga	gccgagatcg	cgccactgca	ctccagcctg	ggcgacagtg	cgagactccg	1320
tctcagaaaa	aaaacaaaaa	acacttgggc	cattattggac	tctactgggt	tgtattgggt	1380
aatcctgggt	tctcttgggg	caagacttgg	ttttattgga	gcactcggta	taggggcaga	1440
caaggctgtt	ggggcctgtg	ctagcacagg	cagccgtatt	gggatgttcc	aatctagact	1500
ggtgcagaca	gctgcgtgtg	ggggcattgt	aggctgtgct	agaatagatt	gggctatcct	1560
agggtaat	gggacattca	gggctatctt	ggactagatt	ggcgtgtaaa	taatgcagag	1620
aaagcccttt	tgtgtttatg	gtcttttggg	ctgagccttc	tggttccctca	acctctgctt	1680
tttttttttt	tttttttttt	tttttttttt	tttttttgaga	cagtctcgt	ctgtgcgccca	1740
ggctggagtg	cagtggcgca	ttctcagctc	actgcaagct	ctgcctcccg	ggtccacggc	1800
attctcctgc	ctcagcctcc	caagtagctg	ggactacagg	cgtcgcgcac	cacacccgg	1860
taattttttg	tatttttttag	tagagacggg	gtttcacctg	tttagccaga	ctgggtctctg	1920
acttctgacc	tcgtgattcg	ccgcctcag	cctcccaaag	tgctgggatt	acaggcgtga	1980
gccaccgcgc	ccggcccaac	ctctgctttt	ttgaaggcag	gctggattaa	gttgggatag	2040
catgggtttt	agaagaactg	aacaaactgg	actctagcta	gaaagattgt	ttgacatggg	2100
gatgctgata	ctatcttggg	agttatcttg	gctttaaggc	aagggttttc	tagttgtcag	2160
caatgtaatc	ttggacaatt	tatttaaat	ttgtgtcttg	atctcatctg	tgacatggag	2220
aaaatcacag	aatgaaatgg	ttagttcacg	tgtgtggcac	acgggaaatt	ctgtgtgaat	2280
ggtaattgta	attagcattg	aggctgacca	ctctgtaaag	taggttatgg	tgatacagaa	2340

taattttgcct	cagagtggac	caagctgtgc	tgagattgtg	ttatgttggg	aagaatccta	2400
cattatgctg	agacgggtta	gtagtgactg	ggctgtgttg	tcacgttgac	agcaaatgga	2460
ttatgttgat	atatatcttg	gctcccatga	ccatattagg	ctaacgggtt	aattagacaa	2520
ggtgtcctaa	tttggggcta	aggttgtgtg	tggaagaga	gagaggaaca	actagggtag	2580
agagtctgat	gctttatacg	tttattcatt	tagtcgacag	tatttgtaa	tgcttaagt	2640
tcagtgtgtg	gtgtgtggct	aggacatggt	gttgaccaga	gtaagtgtc	atggtttgat	2700
gtcatggtca	agaagaagg	gcaagtccgg	tccaccacag	ggaacccatt	ggagagatga	2760
ccccaaggct	gggctttggg	atctgtcagg	ttgagcagat	tgctttgtgc	agaattttgt	2820
gcccagtgag	gcacagggga	atgggaaccc	cagcttgccc	tctccttggg	agctttcagt	2880
ctaagttaga	acttccattg	tttgtttgat	ccaatgggtg	gttttttttt	tttttttttt	2940
ttctgaggtg	gagtctcact	ctgcccaggc	tgagtgagc	cggcgcaatc	tcagctcact	3000
gcaaccttgc	cctactgggt	tcaagcgatt	ctcctgcttt	ggcctccgga	gtagctggga	3060
ttataggtgt	gcaccacat	gcctggctaa	tttttatatt	ttagtagag	aaagggttc	3120
accatgttgg	ccaggctggt	cttgaactcc	tgacctcagg	taatctgccc	actttggcct	3180
ctcaaagtgc	tgggattaca	ggtgtgagtc	actacgcctg	gcctctaatt	ggtgttttta	3240
ctcaagaaag	gacagtcttc	tagaaatgaa	ttagagaaaa	ctaaaggaaa	gtataagagt	3300
agaggctttg	atgaggacca	aagccttttt	tggaagggtt	tttttttttt	ttttgagccg	3360
cccaggcttg	aatgcagtgg	cgcgatctcg	acttactgca	accactgtct	cccgggttca	3420
agcgactctc	ccatctcagc	ctcctgagta	gctgggatta	tagacacca	ccatcatgcc	3480
eggctaattt	ttgtatttta	gtagagattg	ggttttcca	tgctggccag	gctggtcttg	3540
aactcctgac	ctcagggtgat	ccgcccgcct	cagcctccca	aagtgcctggg	attacaggtg	3600
tgagccaccg	tgctgacct	ttttggaagg	tttgtaagga	acaggggtgg	ggttgagagg	3660
aggccaccag	ccagtctcat	tagataggta	tctcaggcag	ccgcatcagc	gtgcgggatt	3720
gcttttgaaa	ctggactaag	aggtttgagt	cagactcaag	gaagtctttg	gagcagcact	3780
gtgcccctga	gggtgcgtta	gggagaggag	aaataaggaa	aggggattga	gtttggagat	3840
ttcttaggtg	tcggagttag	ttctttcaat	gtaaagagaag	acctgaacag	ggcaggagaa	3900
agtcaacatc	ctggagccag	gtgaagattg	ggagaaagtt	tgatgggggt	cgggggtggg	3960
atggtttggtc	cagctcactg	acctctacct	tgctgccttg	caggggtggtg	aaggaagaaa	4020
tttcagatga	caacgcccgc	ctcccctgct	tcaacggaag	ggtggtatcc	tgggtaagag	4080
gttctgacac	cgaggaccag	gccccctcag	cattgccaag	ctcccctcaag	cctcagtctg	4140
tttctgtatc	ctccccaggc	cgcgcgtag	cagccctggc	tctttacctc	ctgtctgttt	4200
ggagagccgg	cgagaggccc	tcagccttct	ccttctggag	tctctaatac	ttgctaggtt	4260
tttttgctct	tctccagctc	tctgagacct	tttctcattc	tttcacttac	tgccacctgt	4320
cacaccttga	ctcccaagt	agccadgtt	tatcatttgc	acccttctag	ctggtgtcct	4380
cagataatcc	ccaacccgag	atggcccctc	cagtccatga	gcctcgggca	gaactggcgc	4440
ctccagcccc	acctttacct	cctttgccac	ccgagaggac	cagcggcatt	ggggactcaa	4500
ggcctccatc	cttccagtga	gtccttcaga	ttcttgactg	caggggaggg	aggtgagag	4560
ggaacccagg	cctttggtag	gggacgccta	ggatccggag	ccctgttctc	ctgatgtggg	4620
ttggaaacca	tctctgcttg	tccagcccta	atgtgtccag	cagccatgag	aatctggagc	4680
ctgagacaga	aaccgagtca	gtagtgtcac	tgaggcggga	gcggcctcgc	aggagagaca	4740
gcagttagca	tggcggtag	gggcaggcct	gggggcccgg	aagggctggg	ccagacccca	4800
gccttggtgg	ggtgagcagg	gggaagcttg	gttcttgagc	ttcctgtcca	tatgtagctg	4860
ggggccacag	gactggtggc	ccctcaaggc	tggagcgcca	cctggccgga	tacgagagct	4920
cctctaccct	catgaccagc	gagctggaga	gtaccagcct	gggggactcg	gcgaggagg	4980
acaccatgag	caggtgtggc	tccgcacagc	tctccccagc	gcacccagcc	ccgtctcgtc	5040
ttccagtcaa	tctcttgggt	ctttctcttg	gccccatgac	cactttggcc	tacgttctct	5100
ctccttccca	acctcctggt	aggttcagca	gctccacgga	gcagagcagt	gcctcccgcc	5160
tccttaagcg	ccacggcgcg	cgaaggaagc	agaggccacc	ccgcctggag	agggtagagg	5220
gttctctacg	gaaggctggt	gctgggagaa	ggtggggcat	gggctttggt	ttgggcggtg	5280
ccaggacacc	ggcagcacc	cagggttgac	cctgggttat	tgaagggcac	tctggtcct	5340
tttccacca	cagacgtcat	ccttcagcag	cgtcacagat	tccacatgt	ctctcaatat	5400
catcacagtc	acgctaaaca	tgggtatggg	gagagcctgt	ggctagggcg	tggggagggc	5460
ctggtctcta	gggttccggg	cgctctgtgg	caggggctcc	tcttttcaca	tggcctctct	5520
ccacagagaa	gtacaacttc	ctgggtatct	ccattgttgg	ccagagcaat	gagcggggag	5580
acggaggcat	ctacattggc	tccatcatga	aggggtgggg	tgtggcgggc	gacggggcga	5640
ttgagccagg	ggacatgctt	ttgcaggtgt	gctggggtag	ggccactgag	ctgccctgca	5700
cgggggccc	cagcctctcc	caccgtgtct	ctgaccacct	tgccgtcgct	tccagtgtaa	5760

tgacatgaac	tttgagaaca	tgagcaacga	tgacgctgtg	cgggtgctga	gggacattgt	5820
gcacaagcct	gggtgagttg	ccaagcaggt	tgccggtcct	cagtcctctt	tttttttctc	5880
tttcatgttt	tgttttggaa	ttttaataag	tactaagaca	gccgggctg	gtggctcgag	5940
cctgtaaacc	cagcactttg	ggaggccag	atgggtgat	cacctgaggt	gaggagtctg	6000
agaccagcct	gaccaatgtg	gtgaaaccgt	gtctctacta	aaaatagaaa	aattaagtgg	6060
gcatggtggc	acatgcctgt	agtcccagct	agtgaagtgg	ctgagacagg	agaatcactt	6120
gaaccctggg	gggtggaggt	tgcaagtga	cgagatcacg	ccactgcact	ccagcctggg	6180
cgacagagca	agactccgtc	tcaaaaaaaaa	aaaaagtgc	taagacataa	cgttcaaagt	6240
acatgaaaca	aatgcatgac	atagcaaata	atactagagt	aaatatccat	gtcactgcca	6300
tctagatcat	caaataggag	attgctgata	ccctagaact	tcctcctcag	atgtcccttc	6360
ctgctcccaa	atgcctcact	gccccagggg	tagtcactct	cctgacttct	ttggccatca	6420
ccataacaaa	gaaaagcttt	gcctcactgg	atagttacca	cccttgacag	tatccttgaa	6480
cactgcagtt	tcgttttacc	tgttttttgga	ctttctgtga	atggaactgt	acagcgtgta	6540
ctctctgtgc	tcacttggca	gtatgttttt	aagagttttc	catgttgatg	agtcattccac	6600
attgtggtgc	cttccaccct	caccttctct	agcccagccg	cgatgtgctt	gcttctcccc	6660
ctctttgtgt	ctcttaatcc	atccttgctt	cagacccccg	ccctcctgag	gcctcctctt	6720
cccctgcgcc	cttgactgga	cttctcttcc	ccatagcccc	attgtgctga	ctgtggccaa	6780
gtgctgggat	ccctctcctc	aggcctattt	cactctcccc	cgaagtgagt	gacactcagg	6840
gaggggcctg	aagttggggg	tgggggctgc	ccaggagget	ggggccgggc	ctgtggtcat	6900
ggggaatggg	tgggaggagg	gtccaggcag	aggtggaaca	ggaggctgag	tcagggaggg	6960
actgggctgg	cttttgggga	ctgagaatgg	gtcatttttg	tgccatcttt	gtcccagatg	7020
agcccatcca	gccaattgac	cctgtgcct	gggtgtccca	ttccgcggct	ctgactggca	7080
ccttcccagc	ctatccaggt	tcctcctcca	tgagcaccat	tacatctgga	tcgtctttgc	7140
ctgatggtga	gccgccagcc	cacctcatcc	caccctccca	gcagaaggct	gtcccgcagt	7200
ggtctgatcc	attgcccttg	tgggagcgat	ccctgactct	ggttaccctg	tgtctctct	7260
gccaggctgt	gaaggccggg	gtctctccgt	ccatacggac	atggcatcgg	tgaccaaggc	7320
catggcgagct	ccagagtctg	gactggaagt	ccgggaccgc	atgtggctca	agatcaccat	7380
ccctaattgcc	tttctgggta	tggctgggtc	ctgggcaggt	ggctggagaa	ggggaggagg	7440
tgggtgaccaa	agccaggaa	ggcacaggca	gaggcgagag	caggagttag	aagaagaacc	7500
tgaggccttt	ttccactgtg	ggtgctccca	ggctcggatg	tggttgactg	gctctaccat	7560
cacgtggagg	gctttcctga	gcggcgggag	gcccgcaggt	atgccagcgg	gctgctcaaa	7620
gcaggcctga	tccgacacac	cgtcaacaag	atcaccttct	ctgagcagtg	ctattacgtc	7680
ttcggagacc	tcagtgggtg	ctgtgagagc	tgtaagtccc	cctgccccaa	ctctgggagt	7740
gtggccttgc	ctaccttggt	ctgcctctcc	aaccttagac	ctagcccaga	aaccgcagcc	7800
agggccacca	tggatgggtc	agcagtgtgt	gtcccgcact	aggctcctga	ctggccgagg	7860
atgggggctg	acgtccaccc	atgtgctgct	ggacaagcca	tgtgccaggt	gcaggactgt	7920
gtccaccggg	ggaaggtgca	cctcttacct	gagtcgccga	aagacgtggg	ctagtggctg	7980
tgcccctgcc	ctcatggcag	aagtagatgg	gagtttcttg	tcagagaccc	ttgtgaaccc	8040
ctgtttttgag	ccccatcgtg	ggtgggtctg	ggagaactgt	tccagttcc	tctccattcg	8100
gtgtcttggg	gccctagcct	cttgaagcag	tgatttcttc	ctctcctccc	ttgctttcca	8160
gacctagtca	acctgtctct	caatgacaac	gatgtctcca	gtggggcttc	agaccaggat	8220
accttggtc	ctctgcctgg	ggccaccccc	tggcccctgc	tgccactttt	ctctaccag	8280
tacctgccc	cacaccccta	cagcccgag	cctccaccct	accatgagct	ttcatcttac	8340
acctatggtg	ggggcagtg	cagcagccag	catagtggag	gtaagtcac	cccacatacc	8400
tgtacggcca	ggatctgagg	gtggatgaga	ggggagccag	ggaggagcct	gggtgaggac	8460
tcagttggcc	ctccccctcc	tccacaggca	gccggagc	tgggtcgaca	cggagtgatg	8520
ggggggcagg	gcgcacgggg	aggcccagg	agcgggcccc	cgagtccaag	tccggcagtg	8580
gcagtgagtc	tgagccctcc	agccgagggg	gcagccttcg	gcgggggtgg	gaagcaagtg	8640
ggactagcga	tgggggccc	cctccatcca	gaggctcaac	tgggggtgcc	cctaattctcc	8700
gagcccaccc	agggctccat	ccctatggac	cgccccctgg	catggccctc	ccctacaacc	8760
ccatgatggt	ggtcatgatg	ccccacctc	cacctccagt	ccctccagca	gtgcagcctc	8820
cgggggcccc	tccagtcaga	gacctgggct	ctgtgcccc	agaactgaca	gccagccgcc	8880
aaagcttcca	catggccatg	ggcaatccca	gggttctct	tgtggatggt	atgtagccca	8940
ctgtggggcc	aggtggggcc	gggcgctccc	ggtgtgtgac	tgggtgtcct	ggcgtcatg	9000
tgcttgcct	tacagtgcct	gggctcagcc	taccagctgc	tgcatacag	gagattgtgg	9060
ccactgtgac	tctcaccagc	agtgcctggt	tcctccccct	tcctcaggg	gtagacaagg	9120
gacctttgat	tatttttagc	tttgtttttt	tataagcctt	tttgggggtt	aaaatagagt	9180

ttcttacatt	tttgggactt	ttttaatagg	catttcctct	tttatatgaa	gaattcccat	9240
ccattgggcc	ccttctaacc	ccagaatgtg	acctcctcct	ccagttaccc	acagccctgc	9300
cctttgcagg	gttgggggtg	gtcagcgtg	ccccggggtt	aggcatccta	gacagcagcc	9360
tgaggaagct	gggagatttg	ggccatgtag	ctgcctttgt	tactctatct	atcttagtca	9420
cttggtataaa	acaccaaata	aagcaataga	ggcaaactcc	ccacgcctct	ggctcctttc	9480
tttgggaggg	aggcaggcag	cagggggaaa	gaaccgtcac	acaggagcaa	agcatgaat	9540
gctagaaaatt	tttattatct	gcgaggcagt	aagtgcctct	gagagcaggc	acagtgcctg	9600
gaacactagg	ccccttcggg	acaaaccagg	gccttaagga	aaggggcttc	ggctttggct	9660
tgagggaagg	cacataactg	ggacaggccc	tggccgggag	tattcagaag	ccaagtgggt	9720
tgctggtgac	cacaccaccc	cgctccacca	aggccttggg	gatgcttttg	aagttgcggt	9780
agagctcctg	ctgccagggg	tcagactgca	gggcggccat	gccctctcgg	atccgagctg	9840
cagcctgggg	agagggaagg	aggggttggg	cctgcacctc	cagccctcac	ctgagcttgg	9900
cagccccgag	tctcacctcg	atacaccagg	tgctcacagag	cattttctca	tgtgggccc	9960
tgggggtggc	ctcactcagg	gatcttgagg	ccctggcagg	aagcaggaga	tgaaaataaa	10020
tctggggccgg	ctgggatcca	ggcccaggcc	ccctgcggct	caggcattcc	ctgcctgcct	10080
cctcacctcg	agagaaccac	cacatgggca	tagaggctga	tggccccgtc	tgccagccgc	10140
tgacgcagaa	actgttcatc	tgcccggtag	gtgggggtgg	ggtgggggtg	ggggcattag	10200
tctcaaggag	aggaaaggga	ggggcggaat	ggtgtagagc	tcacttactg	acaatcccc	10260
tcttgtgttt	tatcagcttg	gcctccacca	cagtggcaaa	ctgctccaga	gcccgtactg	10320
ccttaagaga	tggggacagt	gcggggctca	gaggggccc	cggtgcgt	ccctgatgca	10380
ggctctcctg	gaccctggg	cgcttaccag	ctcgccactc	cgactcaact	ccgggtggac	10440
aagtccgctg	agactcaggc	cgctgccag	ccctgccgc	ctgagaggaa	gagggagaat	10500
gactgggttag	ttgccataca	ccaccctgcc	ctccctggc	tctggcccta	agcctaccgc	10560
ctcagctgtt	tgccctgcctc	tcctagcagg	aggccagcat	tcccaaagg	attctttaga	10620
gcaactgcaa	gcccagagag	ctcctttcct	ttgtccctatg	ggggaagagg	gtccagcagt	10680
caggactcac	tgtcctcccc	acctctaccc	ccaccacaatt	ctctgtctta	ccatacagcc	10740
ctgcagagcc	acaaacagcc	gaagaatgtc	atttgtcccc	taaagatcc	ggaagatg	10800
aagatctcgg	agcacacgct	ctactccagg	ttcctagcac	agggccacac	aaattatatg	10860
cccgtgctga	gatgtgccta	cccacccctg	gcccagccga	ggctctgcag	aagaccgtcc	10920
tgtaccttca	tgaagcccat	accccccatg	atttggtatg	attcatctgt	caccttccag	10980
gctgcctcct	agggacaaa	aacagatgag	actggttttg	ggagctgagc	acccaaactg	11040
gactccctcc	cagcatgcct	gggacctcac	cgagccaaa	atcttgctga	tggcgccctc	11100
tatctggaag	tccgtggctc	cctgggtccat	gttagcactc	accatgtaag	ccatggactg	11160
aggttgacata	gttgggacat	gggaaggaaa	attgcaagg	gctttgtcag	acttggcctc	11220
atcacccaga	tctccaagat	aagggtgac	ctagcttgct	aggctcaggca	gatacttggt	11280
ctgggtcagt	tcactcaggtg	cttccaggta	tttgttttct	taaaaggggt	ggatgtaagg	11340
gatgaggtag	aattaacttc	tggtactgct	ggcaggcacc	tgagcagaac	atcattgctg	11400
tctctcttcg	cagaagctga	gctgactatg	cctccccgca	tcccctaggg	cattggtgta	11460
aagctggaga	cccactgccc	caggtgctgc	tgggggttgt	agtctgacct	gactgggaag	11520
aaagccccag	ggctccagg	agaggggctt	gggagccct	cacctcagtt	acatactgca	11580
gcataaccat	ccgtgccagc	ttctcctgga	tcagccaaa	gttgtgaatt	ttctcccaa	11640
actgggtacg	attagtggca	tgatctacct	ggaagagggt	ccacacatcc	cgctgtggtt	11700
cagtgtgggt	ctgcagcttc	cctaggagag	gggctgggct	tgccgcagag	ggatgggttt	11760
tgcatacaac	cagagttcag	tctacgctgg	atggagacct	aagctagcaa	gtcgggctgc	11820
tggtagggga	ggagtttcta	gtgtagggag	tgccctgcaag	tgatcaggga	cacatggcaa	11880
gggggacagt	gagacttctg	tttgggttac	ctagggactc	gggcagggta	ctcaccgcct	11940
tagcaatgat	gcctctcatg	gtacctgcca	gggcgcgagc	catgccaaac	cttccattgt	12000
tgaggatgtg	catggcaacc	ttgaagcac	tcccaacctc	acccagcacg	ttctccgatg	12060
gcacccgtac	tccatcaaag	aacacctctg	ctgtgtttga	agccttgatg	cccatcttct	12120
tctcaggggg	cccactgtgt	cagggcagtg	tgggaaagca	gaggtgtgtt	caacagggtt	12180
tcaactgggg	aaaaactgct	ccttcgctcc	ttatgcacca	gggaggaatg	acgacata	12240
gactattaga	ggctacagcc	accacttccc	ctcaggccct	gagggctaag	gaggccctggc	12300
tatgtcctat	tttgtgttgg	acttggttgc	tggagccaaa	actttagctc	agttgcatac	12360
atattagtc	caaaggccac	attcagtcca	cctgctttgg	cttttgca	cgtccccagg	12420
gtgacttgca	acagccatct	gcccaggagc	ccagtccctg	ccctcagtc	taagctcccc	12480
caacccaaat	tcaactactg	ggtaatgcc	ccgaagcccc	tctccaccac	aaaagctgtg	12540
atcttctcct	tcacggctcc	tgtggctgga	tctgtaactg	gtgtcttggc	aaagaccgtg	12600

aagatgtctg	ctaggccccc	attactgtgg	aagaatggga	tattcagggc	gggaggacg	12660
gggagcagtg	gggcctggaa	ttgggcggag	gagaagggga	gaaatgggag	gcaggttgcc	12720
tgatccaaag	cttgcttcca	ttgagggtat	agtattttcc	acaggggctg	ggcacagcag	12780
aggttcggat	ggaggctgca	tctgacccgc	ttgagggtct	ggtagacag	aaagcggcca	12840
cagtctcccc	tgttggggag	agagctactt	tacccaagt	tctgatgagc	ttcaaagtcc	12900
cctcggccca	cttccccatc	cctccagcag	gcagttcccc	cttaacacct	gggagtatcc	12960
agttcttttg	catgtcccaa	ccagcacact	gtgatgcctc	cccaaacct	ttccccaact	13020
gaaatgtctc	gccatctgat	aatctaagt	ccaactggcc	taatctgtgc	caagcccagt	13080
gtgcccccca	atccctggct	ctcctagggt	tgcctcacca	gatgccagct	tggggaggta	13140
tttttctttc	tgggcctttg	tgccaaagag	caggatgcct	ttgaaaccga	tgctctgatg	13200
ggccccccag	gtaatgcccc	cgccaaagtc	atgcatgccc	acgatctcca	ccaaacgggc	13260
gtactggagg	ggaagcagga	atctgggggt	gtcactggct	gcagggggac	ctgaccttaa	13320
caggagagtg	tgggcaacag	ggcagttcct	ggcctagggc	agtgcctgac	ctgggcatc	13380
cccagtggtg	agaaaagaag	tggggtgtgc	aaagggcaca	gcagagaatg	ctggtctgtc	13440
ttaggtctag	gtaggagggt	gacttgctac	tagtcagtct	attgtaggc	aatccccaac	13500
ttagagattt	gtaaggactt	gggaaccagg	gtgaggccca	tggctcaggc	ctaggggact	13560
gcatgtaaat	tgtgttatgt	ttggacagtt	aacatccatc	ccacaggcac	ccagggcagg	13620
tgcttagaag	agaccttagc	cctagtctct	aggtctatgg	caaaagagct	gagtctgcca	13680
agctggggta	tggcatactg	ggatgtggcg	ataggcgcc	ctacctggg	tgttgcaaag	13740
gcccacacga	cccagctcac	tgggcaactg	cagacccaag	gccccagct	ccttgaggcc	13800
ctgccaaagt	gtctctctca	ccatctccag	agcgtcattc	ttggcgggat	cgttcacttc	13860
ctgggggaagg	cacaggatcc	cacatccagg	ctcccttga	gcttaacatc	tccaaacacc	13920
tcaccagggg	ccaagccccg	agtcattcct	tacctcgaag	aaacgggaca	caggctccac	13980
cagctcttta	agaaactgtg	tctgctcttc	gttgagcact	gcagagggtg	ggggacaggc	14040
tggtcaggcc	aggctggcag	gggaaaccac	cctggcccca	cccagctctg	attatccctt	14100
cccttaccgg	acgggtatgg	gaacacctga	tctgtggtga	gctggccttt	gaacattccc	14160
acagcaaagg	acttagattc	ctgggcagag	agaggcaaat	ttcagggtc	tgggtgggtc	14220
tggctaagggt	ccacctggcc	tcggggctac	ctaccgcctt	ggcgggtttt	ttcctggtca	14280
gagcgtcaga	ggggtgggaa	tctgacttgt	ccagagccag	ctgggaaaag	agacggttag	14340
caagttcagg	gaagggaact	ccgctgtgtc	aaggggagaa	caggcgagag	ccgcgcgggg	14400
aggcggcgcg	aagcgggtgac	ctttccocta	gtttcgccct	agggcaccct	ggcttgccct	14460
ttcccttact	ttcggcgact	gagcagtagg	caggtaacct	gcaccaagag	ggagatccct	14520
gccgatggcg	ggcgccgaag	cggaccgcgc	ctcccacacc	cccttgccaa	ggctgcggtg	14580
acttacctga	gcggcacccc	cgccataggg	ccgccgggca	gggccggggc	ggggctgccc	14640
caggagcgcc	gtgagccgcg	agctgtgggg	agtgggggtt	cagtgccggc	ccggtgcccc	14700
gggcccgtgc	ccaccgtccc	tctgttcaca	cacagacctt	ccgccccga	gcctcagcag	14760
ctgccgcccc	aagctcgcg	ccatccgagc	cgctgtcatc	tccgaatctc	tcggggcgcc	14820
gctggctcga	gctctgacct	agctctggcg	tctgtcacgc	ccgcgtcctg	cacgcccacg	14880
tcttggcgc	cctaaccctg	actcatcgtc	cacagtgc			14918

<210> 1912
 <211> 4456
 <212> DNA
 <213> Homo sapiens

ctgccaggct	gtgaaggccg	gggtctctcc	gtccatacgg	acatggcatc	ggtgaccaag	60
gccatggcag	ctccagagtc	tggactggaa	gtccgggacc	gcatgtggct	caagatcacc	120
atccctaagt	cctttctggg	tatggctggg	tcttgggcag	gtggctggag	aaggggagga	180
ggtggtgacc	aaagccagga	atggcacagg	cagaggcgag	agcaggagtt	ggaagaagaa	240
cctgaggcct	ttttccactg	tgggtgctcc	caggctcgga	tgtggttgac	tggctctacc	300
atcacgtgga	gggctttctt	gagcggcggg	aggcccga	gtatgccagc	ggctgtca	360
aagcaggcct	gatccgacac	accgtcaaca	agatcacctt	ctctgagcag	tgctattacg	420
tcttcggaga	cctcagtggg	ggctgtgaga	gctgtaagtc	ccccgcccc	aactctggga	480
gtgtggcttt	gcctaccttg	ttctgcctct	ccaaccttag	acctagccca	gaaaccgcag	540
ccagggccac	catggatggg	cgagcagtg	gtgtcccgc	ctaggtcctg	cactggccga	600
ggatgggggc	tgacgtccac	ccatgtgctg	ctggacaagc	catgtgccag	gtgcaggact	660

gtgtccaccg	ggggaaggtg	cacctcttac	ctgagtcctc	caaagacgtg	ggctagtggc	720
tgtgcccctg	ccctcatggc	agaagtagat	gggagtttct	tgtcaggac	ccttgatgaac	780
ccctgttttg	agccccatcg	tgggtgggtc	tgggagaact	gttcccagtt	cctctccatt	840
cggtgtcttg	gggcccctagc	ctcttgaagc	agtgatttct	tcctctcctc	ccttgctttc	900
cagacctagt	caacctgtct	ctcaatgaca	acgatggctc	cagtggggct	tcagaccagg	960
ataccctggc	tcctctgcct	ggggccacc	cctggcccct	gctgcccact	ttctcctacc	1020
agtaccctgc	cccacacccc	tacagcccgc	agcccccacc	ctaccatgag	ctttcatctt	1080
acacctatgg	tgggggcagt	gccagcagcc	agcatagtga	gggtaagtca	tccccacata	1140
cctgtacggc	caggatctga	gggtggatga	gaggggagcc	gggaggagc	ctgggtgagg	1200
actcagttgc	ccctcccctc	cctccacagg	cagccggagc	agtgggtcga	cacggagtga	1260
tgggggggca	gggcgacagg	ggaggcccga	ggagcgggcc	cccagagtcca	agtcggcgag	1320
tggcagtgag	tctgagccct	ccagccgagg	gggcagcctt	cggcgggggtg	gggaagcaag	1380
tgggactagg	gatggggggc	ctcctccatc	cagaggctca	actgggggtg	cccctaactc	1440
ccgagcccac	ccagggtccc	atccctatgg	accgcccctt	ggcatggccc	tcccctacaa	1500
ccccatgatg	gtgggtcatga	tgccccacc	tccacctcca	gtccctccag	cagtgcagcc	1560
tccggggggc	cctccagtca	gagacctggg	ctctggtccc	ccagaactga	cagccagccg	1620
ccaaagcttc	cacatggcca	tgggcaatcc	cagcgagttc	tttgtggatg	ttatgtagcc	1680
cactgtgggg	ccaggctggg	ccgggcgctc	ctgggtgtgtg	actgggtgtc	ctggccgtca	1740
tgtgcttgct	cttacagtg	ctgggctcag	cctaccagct	gctgccatac	aggagattgt	1800
ggccactgtg	actctcacca	gcagtgcctg	gttctcccc	cttccctcag	gggtagacaa	1860
gggacctttg	tttttattat	gctttgtttt	tttaagtacc	tttttggggg	ttaaaataga	1920
gtttcttaca	tttttgggac	ttttttaata	ggcatttcct	cttttatatg	aagaattccc	1980
atccattggg	ccccttctaa	cccagaatg	tgacctctc	ctccagttac	ccacagccct	2040
gccctttgca	gggttggggg	tggtcagcgg	taccccgggg	ttaggcattc	tagacagcag	2100
cctgaggaag	ctgggagatt	tgggccatgt	agctgccttt	gttactctat	ttattttagt	2160
cacttgtata	aaacaccaa	taaagcaata	gaggcaaact	ccccacgcct	ctggctcctt	2220
tctttgggag	ggaggcaggc	agcaggggga	aagaaccgtc	acacaggagc	aaagcatgac	2280
tggtagaaa	tttttattat	ttgcgaggca	gttaagtgtc	ttgagagcag	gcacagtgtc	2340
gggaacacta	ggccccctcg	ggacaaacca	gggccttaag	gaaaggggct	tcggcttttg	2400
cttgagggaa	ggcacataac	tgggacaggc	cctggccggg	agtattcaga	agccaagtgg	2460
gttgctgggtg	accacaccac	cccgtctcac	caaggccttg	gagatgcttt	tgaagttgcg	2520
gtagagctct	tgtctgccag	ggtcagactg	cagggcgggc	atgccctctc	ggatccgagc	2580
tgcagcctgg	ggagagggaa	ggaggggttg	ggcctgcacc	tccagccctc	acctgactt	2640
ggcagccccg	agtctcacct	cgatacacca	ggtgtcacag	agcattttct	catgctgggc	2700
cgtggggctg	ccctcacctc	gggatcttga	ggcctggca	ggaagcagga	gatgaaaata	2760
aatctgggac	ggctggggtc	caggcccagg	ccccctgcgg	ctcaggcatt	ccctgcctgc	2820
ctcctcacct	cgagagaacc	accaccatgg	catagagggtc	gatggccccg	tctgccagcc	2880
gctgcagcag	aaactgttca	tctgtccggt	aggtgggggtg	ggggtggggg	tgggggcatt	2940
agtctcaagg	agaggaaagg	gaggggcgga	atggtgtaga	gctcacttac	tgacaatccc	3000
cttcttgtgt	tttatcagct	tggcctccac	cacagtggca	aactgctccag	agcccgctac	3060
tgccttaaga	gatggggaca	gtgcggggct	cagaggggcc	atcggtgca	gtccctgatg	3120
caggctctcc	tggaccctcg	gccgcttacc	agctgcgcac	tccgactcaa	ctccgggtgg	3180
acaagtccgc	tgagactcag	gccgctgccc	agccctgccc	gcctgagagg	aagagggaga	3240
atgactgggt	agttgccata	caccaccctg	ccctcccctg	gctctggccc	taagcctacc	3300
gocctagctg	tttgctgcc	tctcctagca	ggaggccagc	attcccaaag	ggattcttta	3360
gagcactgcc	aagcccagag	agctcctttc	ctttgtccta	tgggggaaga	gggtccagca	3420
gtcaggactc	actgtcctcc	ccacctctac	ccccacccaa	ttctgtgtct	taccatacag	3480
ccctgcagag	ccacaaacag	ccgaagaatg	tcatttgtcc	cctcaaagat	ccggaagatg	3540
cgaagatctc	ggagcacacg	ctctactcca	ggttcctagc	acagggccac	acaaattata	3600
tgcccgtgct	gagatgtgcc	taccaccccc	tggcccagcc	gaggctctgc	agaagaccgt	3660
cctgtacctt	catgaagccc	atacccccca	tgatattggat	gcattcatct	gtcaccttcc	3720
aggctgcctc	ctagggacaa	agaacagatg	agactggttt	tgggagctga	gcacccaaac	3780
tggactccct	cccagcatgc	ctgggacctc	accgagccaa	agattttgct	gatggcgggc	3840
tctatctgga	agtccgtggc	tccctgggtc	atgttagcact	tcaccatgta	agccatggac	3900
tgaggttgca	tagttgggac	atgggaagga	aaattgcaaa	gggctttgtc	agacttggcc	3960
tcatacccca	gatctccaag	ataagggtcg	acctagcttg	tcaggtcagg	cagatacttg	4020
ttctgggtca	gttcatcagg	tgcttccagg	tatttgtttt	cttaaaaggg	gtggatgtaa	4080

gggatgaggt	agaattaact	tctggtactg	ctggcaggca	cctgagcaga	acatcattgc	4140
tgtctctctt	cgcagaagct	gagctgacta	tgctccccg	catcccctag	ggcattggtg	4200
taaagctgga	gacccactgc	cccaggtgct	gctggggggt	gtagtctgac	ccgactggga	4260
agaaagcccc	agggctccag	ggagaggggc	ttggaggcc	ctcacctcag	ttacatactg	4320
cagcataacc	atccgtgcca	gcttctcctg	gatcagccca	aagttgtgaa	ttttctcccc	4380
aaactgggta	cgattagtgg	catgatctac	ctggaagagg	gtccacacat	cccgtgtggt	4440
ttcagtgtgg	ttctgc					446

<210> 1913
 <211> 4682
 <212> DNA
 <213> Homo sapiens

<400> 1913						
gccgtcccc	gggggagggg	agcggcttgg	tgcgcctgcg	ccagcctgtg	gctttctggg	60
aatcaaagtt	ccggaggttc	atgcggtccc	ttttccgctg	ttcccggacg	gactacaaaa	120
cccttggtgc	actgcgcctc	ggcgccggcg	ggggaggag	ggagagaaga	ggagggaggg	180
aggagagagg	aggaggagga	ggaggaggag	ggagcaggcg	gccggcgggcg	cggggggagg	240
gggcccggtc	cgggagtgcg	ggaggcagtg	gtagagggag	gtggcggcag	cggctagcgg	300
actcagagtct	caaccgggct	gaggcggaca	cttctgtgga	gcgaagcagt	gggagcatcg	360
agcactagag	gcggcaccgg	gatccccggc	tccggggagg	ggggcgccgg	accgggagga	420
ggggaggggg	cgatgctgga	agccatggcg	gagcccagtc	ccgaagggtga	gctctcgacc	480
ggtgcagagc	gctgagccgg	cgggggggcg	gcgaggaatc	aattggcaaa	cttgagggtc	540
gagccccgga	gccagcggg	ggagtccggg	gagggggctg	ggaggctggc	cctggaggtg	600
ggagagcgac	gagttgagag	accttgagga	aagaggagtg	ggaaactggg	ctggggtagt	660
tggagatcag	acggtgtggg	ggtgcggggg	ataggagctt	gaaaccggga	gcctcggggg	720
ttagggcccc	aaagggccac	cggcagattg	gggccctgga	actggaaggt	tagggggtc	780
cagtggccgg	agagttgctc	aggagggagg	acgtagaaga	ggctgagtga	ggggcccggg	840
agttcgccga	ggtggggtag	tttgtggcgg	tggtaccgga	gctccgagta	gttgccgccc	900
gagaatgccc	ggtgattgtc	ggagaggttg	gcaggtagtt	gtggggagaa	gagggggtct	960
gggtattgtc	tacggcagac	ggacctgtac	cggggggtag	ttgtggagag	agcgagccag	1020
gaagcgaggc	gagctgggta	gttgtagggg	gtggtggggc	ggggtggggg	gggttaagac	1080
cggcgacttg	tcgggcgggg	gggtaggggt	ggtccgcgag	gggttaagagc	ctgggagttg	1140
ctgaggggtga	ggggggcatc	ggcggcagca	gcggtggctg	ctgtggagag	gagagagag	1200
tggctggttg	gggggaaggg	gccagagttg	aggggtccat	agcctagtaa	ctgggtggtg	1260
agtacggggg	cggagggggg	ggcggcggcc	ggagaggcct	aggaacaggg	ccggggggcc	1320
cggtggggag	cccgaaaagc	tggagacggg	gagggggcaa	agccccggat	gggggcggag	1380
ggacggcgaa	attgtgtggga	gcgcggtatg	ggcgggtggg	ggggcaggtg	ggggccgcgt	1440
ccgggttaga	gctcccgggt	ctgtcccggc	cgtgaagtag	cgttggtatg	gtgtgcctgt	1500
gtgtgtcttg	ggtgggggtg	aggggcgcgc	cgggccgcgt	gctcgagtag	aaggggccgg	1560
agggcgggga	gcggttcggc	gtggtcatcc	tggaccctgg	gggctgcgg	gcggcgtgtg	1620
cggctctcgga	gggcccagag	cgggtggagcg	cggccgggta	ggaactcggg	gctccggggc	1680
cgtgtgaagg	acggggggcg	ctggcggcgg	cccggacgcg	gccccgggag	cggtagcgtg	1740
gggtggggcg	ctgagggatc	cgagtagact	ggagtcgaga	gagaccgtga	gttggggggg	1800
cggggcgccg	ggcctccggg	tgggggaagg	ggagcgctat	agcgaggcct	cagagggcgc	1860
cgcgcccagg	ctccgcccct	cgcggggcgg	aagggggagc	cggggcggat	ccaacacagc	1920
tgggggcctg	ctggcctggc	agagggacct	gggagagcag	ggggttcact	taggaacaac	1980
gggggttaga	gggggagttt	tacacagatt	gttctagtg	tcttgactca	gcttttattg	2040
cttttccaga	tccacctccg	acccttaagc	cagagactca	ggtgaggttt	gccttacctt	2100
tgcagcctag	tagccctgcc	tgacaacgcg	ccccgcccc	cttttctaga	cctcacttag	2160
ggactgtgtt	tctgggaatg	ccattcttaa	actgtgtggc	tttgcatgtg	atccatatct	2220
ccttcccttc	agccaccaga	gaaacggcgg	agaacaattg	aggatttcaa	caaattctgc	2280
agttttgttt	tggcatatgc	tggttacatt	ccccctagca	aagaggtagg	ggcaagagaa	2340
ttactgactt	gaggctgggtg	tggtgggact	atagagtgac	tgttgttcaa	acagaactgt	2400
attgctttat	agaaggaggc	ccctagaaat	tatagttaag	accaggggaag	ttggagactc	2460
ttagggctgt	ggtaggaaag	ctggtatgcg	gggagtggat	ggccgggata	gctagcttga	2520
acagcagtga	aaaggaaggg	ggatttgagg	tcgctggttg	agattttggc	atagtcttga	2580

ggtgctgtga	atggaagggtg	tttatggata	aatttttaggg	agatgaaaat	ggtaaacaaat	2640
gaggctatac	agaaaaagag	ctaaggacat	aacgggtccg	gtctgggtga	tacagtgttc	2700
cacaggccct	gggcaggggc	agcgggtgag	tgtcagactt	gagggtagag	gtaacacgga	2760
ctggtcaaga	ggacatgctg	atgggaattg	gggtggggag	aagtttttgg	agtacagtgg	2820
gatttagtgg	ttgaggtagg	acattttggg	gtaaataccag	tcaactcctt	tcaagctggg	2880
tttgtggagg	ggctgagatg	acactggggg	tctgtctgacc	ctggtctctt	ccccctttta	2940
aggaaagtga	ctggccagcc	tctggctcca	gctctccatt	gcgaggagag	agtgcggccg	3000
acagtgatgg	ctgggactcg	gccccctcag	atcttcgaac	catccagact	tttgtaaga	3060
aagcaaagtc	atccaagaga	agggcagctc	aagcagggtcc	cacccagcca	ggacccccaa	3120
ggtccacttt	ctctcgtctg	caggcccccg	acagtgtctac	cttgcttgag	aagatgaagc	3180
tcaaggactc	tctctttgat	ctggatgggc	ccaaagtggc	atctcctttg	tccccacat	3240
ccctgacaca	tacctcccg	cccctgtctg	ctcttaccct	cgtgccccct	tcccaggggg	3300
acctctccca	tctcctcga	aagaaggacc	gaaagaaccg	aaagttaggg	ccaggagctg	3360
gggctggctt	tgggtgctt	cggaggcctc	ggccaactcc	tggggatggg	gaaaagagat	3420
ctcgaatcaa	gaagagcaag	aagcggaagt	taaaaaaggc	agaacggggg	gataagctcc	3480
cacctcctgg	gcctccccag	gcacccccca	gtgatacaga	ctctgaagag	gaggaggaag	3540
aggaggaaga	ggaagaagaa	gaagagatgg	caacagtggg	agggggtgaa	gccccagtcc	3600
ctgtgctgcc	aacacccct	gaggctccta	ggccccctgc	cacagtgcac	cctgaaggag	3660
tccctcctgc	tgacagtga	agcaaggagg	tgggcagcac	tgaacaagc	caagatggag	3720
atgccagctc	cagtgaaggc	gagatgcggg	tcatggacga	ggacatcatg	gtagaatcag	3780
gtgagagggt	tgggtgggg	cgggggttt	gaggggtgtg	tggatccaac	agctcaggca	3840
gaataccaaa	caaacctttt	tttccccagg	tgatgactca	tgggatctgat	cacatgtta	3900
ctgtcgaaag	ccctttgcag	ggcggcccat	gattgagtgc	agcctgtgtg	ggacgtggat	3960
ccacctctcc	tgtgctaaga	ttaagaagac	caacgtcccc	gacttctttt	attgccagaa	4020
atgcaaggaa	ctgaggccag	aggccccggc	gttagggggg	cctcccaa	ctggagagcc	4080
ctgatggcac	caacttttagc	ctggaacttc	caaatgacaa	catgatttgg	gaactgagcc	4140
tcagggtcct	cagcctatcc	cctggagctt	ggatactgtc	tgcacttcaa	ggcaggaatt	4200
ctcaagggag	acttgtttga	aaatgagtgt	ctcactttcc	caccctatcc	ttcctcccca	4260
ctctgtggac	ttgaaattga	atccattacg	gttggggatg	ggagctgtc	tgtgtcccga	4320
cacataatct	ctgtctcttg	gacctgccac	catcactttc	tgggtcagga	ttggaattgg	4380
gatggaatgg	gacagtgtgc	tataaaactc	tagtgtaaat	attagcactc	ccctccctca	4440
tcttttcttc	tatttcactc	cccatattat	ttcttctaca	cgggttgtat	ttttaatttt	4500
ggacttcccc	tattgggcat	ggcagctcaa	aggtggagta	ctagagcctg	gccaagtga	4560
gaaggaaaagc	agaaaggtag	cgattctcac	tcacctcttt	tgtttttaat	aatatcgcc	4620
gctgtttgta	cagacagcct	gcgtgttgta	aataaagcag	agtgggctct	tttgtgttta	4680
ta						4682

<210> 1914

<211> 242

<212> DNA

<213> Homo sapiens

<400> 1914

tcacgagggtc	aggagatcga	gaccatcctg	gctaacacgg	tgaaaccccg	tctctactaa	60
aaatacaaaa	aattagccgg	gcgagggtgg	gggcgcctgt	agtcccagct	actcgggagg	120
ctgaggcagg	agaatggcgt	gaaccccgag	gggcggagcc	tgcagtgagc	cgagattgcg	180
ccactgcact	ccagcctggg	cgacagcgag	actccgtctc	aaaaaaaaa	aaaaaaaaag	240
gc						242

<210> 1915

<211> 5754

<212> DNA

<213> Homo sapiens

<400> 1915

aagaccatcc	tggctaacac	ggtgaaaccc	tgtctctact	aaaaatacaa	aaaattagct	60
gggtgtgggtg	gcgggcgcct	gtagtcccag	ctactctgga	ggctgaggca	ggagaatcgc	120

ttgaacccag	gaggcggagg	ttgcagtga	ccgagatcgc	gccactacac	tcagcctggg	180
cgacagagt	agactccgtc	tcaaaaaaaaa	aaaaaaaaatt	acttagacat	ggtggcacat	240
tcctttaatc	ccagctactt	gggaggctga	ggcaggagaa	tcgcttgaac	ccaggagggtg	300
gaggttacag	tgagccgaga	tcgcaccact	gtgctccaca	ctccagcctg	ggcaacagag	360
tgaaactctg	tctcaaaaaa	aaaaaaaaaaa	aaaaaamaaa	ggaataaagg	ggatggggtt	420
gacatctgac	aaaatgctgc	tgctgccatc	cgcttctgca	aaacctcaag	aatgaaatgt	480
ccttcccatg	gccacacaga	ggccctgcac	gagctgcttc	atcccccttc	aaacctcctc	540
tcctctctct	tccccctctc	actctgctca	gacacacggg	cctcctcact	gttcctccaa	600
cacgccacgt	gtggtctgcc	ccagggcctt	tgcacaggcc	atgcctctgc	ctggaacacc	660
tgcccccaga	ttctcctatg	gctgacttct	cacacttggg	tcttagtgca	tgcatcacct	720
cctcagggtg	ggccccctgc	ccacccccag	tgaatctagc	cccattcagg	acagtcattc	780
ttattatgca	ctgattgtat	actaagccca	gagacttcaa	ctgtgggttc	tttttcatcc	840
tcccaataaa	tccatcccat	catccgttca	ctcagacatg	aaattctgga	ccctccaatt	900
caggatctgg	gccacccagt	gcctagcttt	tttttttttt	tttttttttt	tttgccgaca	960
gagtttcatt	ctgtcaccca	ggctggagtg	cagtgggtgca	atctcagctc	actgcaacct	1020
ccgctcccg	ggttcaagcg	attctcctgc	ctcagcctcc	cgagtagctg	ggattacagg	1080
tgtgccacca	cgcccggtca	atttttgtat	ttgtagtaga	gacgggggtt	caccatattg	1140
gccagactgg	tcttgaacac	ctgacctcag	gtgatctgcc	ctcctcagcc	tcccaaagtg	1200
ctgggattac	tacaggcatg	agcactgca	ccgtcagcc	tacttcttgt	gttcattcat	1260
tcatctattc	attcattcat	cattcagcaa	atgtctatga	gcgcctactc	tgagccactg	1320
aaccagctgg	gctggccctg	ggggagaatc	gacttcccct	gcaaattcac	tctcatcaga	1380
tccccaggct	ggtctaggat	tgtttagatg	ccctcacgtt	ggggaactca	ttcttacta	1440
agaataacca	ccaccaatac	caaacagttc	caagtaccac	caatagtgtc	gagttctcag	1500
ggtgactaca	gcattctgct	ccaagcccag	cccagcccat	atggtgtgtg	ctgtgtcaaa	1560
gaacctgggt	tcaaatccca	tgtccttttc	taacccttgg	acaagcccct	acccattttg	1620
tgctcgggtt	tccctagctg	taaaatggag	atagtagtgc	ctctcttgtg	ggctcagcac	1680
caggcctggt	acacagctgg	tgcttaataa	atgtgtcctg	ttacttaagg	tctgatattg	1740
gtagctcctg	tcgtcgccgt	ccatgggggt	gagtggggtg	gggaagggtg	ggttgagtt	1800
tctgcacatc	aggacacgag	gcgcggtcca	tgcaaatgaa	atgcaaatc	catgcaata	1860
aatctctggg	tggtgcaagg	ctggagggtac	aagggtgcacg	catttggggg	gcgcctggga	1920
accccatgaa	tcgagcccag	gcccggaggt	gctgaccgcg	atccagcccg	gctttcagtg	1980
ctcgggtgaa	atgtttacac	ctggccggcc	gccagggtcc	acgccgcccc	acactaggca	2040
gccaggaggg	ggaatgtaaa	ctcgggctgg	gggccgcggg	acgctcggga	ggagcccaga	2100
cggagtgcag	tgtggtgggt	gtgtacacgt	gagttattaa	acaccgactg	tatgcagtga	2160
ggaggtgcc	accaggcact	cacagacca	agtaactggt	gcccgaatgg	gtaaagctca	2220
gggcattcct	gggggcccac	tagcgccttc	gcaccagcca	gagttgaag	tgaatagggt	2280
aggcagccat	ggaaggctcc	ctggaggagg	caccctccaa	ggtgagattg	caaggggagt	2340
gagagctagg	tacatgtgac	ttcacagcct	gtaatcgcca	gctctttggg	aggccaaagt	2400
ggaaggatcc	ttgagcccag	gagtttgaga	ccagcctggg	cacgttggtg	gattcccctc	2460
tctattaaca	aaaacaaaaa	caaaaaaaat	taaaaattag	ccaggcatgg	tggtcatgct	2520
ctgtagtcag	tcctagctac	ttgggagggt	gaggtggggg	gatcgcttga	gcctaggagg	2580
tggaggctgc	agtgcgtgtg	gatcacacca	ctgcactcca	gcctgggtga	cagagcaaga	2640
ccctgtctca	aaaaaaaaaga	aagagagaga	gaaagaaaga	aaggaaagaa	aggaagagaa	2700
aagaaagaga	gaagaaaaag	gaaagaaaga	gagagagaga	gaggagggtg	ggtgcggtgg	2760
ctcatgcctg	taatcccagc	actttggggg	gccaagggtg	gcggatcact	tgagttcagg	2820
agcttgagac	cagcatagct	aacagggaga	aaccctgtct	ctattaaaaa	tacaaaaatt	2880
agccagtcac	gctggcagggt	gcctgtaatc	ccagctactc	agggggctga	ggccggagaa	2940
tcgcttgaac	ccgggaggga	gaggttgacg	tgagctgaga	ttgcgccact	gcactccagc	3000
ctgagggaca	agagtgcagc	tccatctcca	aaagaaaaaa	agaaaaagag	aaagaaaggg	3060
gagtggggagt	ggggaggggg	ggaagaagtg	tttcccatgc	aaggacctat	ctgtgcaaaa	3120
gcccagagct	gggactccat	gtccaggggc	gctctggtcc	attgctgccc	acttctgggc	3180
ctgcttatcc	atctggatgg	gaaacagggt	cagagagggg	cagagtcaat	ggaggacacc	3240
agcatgtagg	gaacagtgtc	agccccagat	tcctgcctcc	agactgtcct	aaacaccacc	3300
ctccccgcgc	ctttgtccca	cactgccacc	tgccgggaat	gacctctcct	cctttcactc	3360
ttccccctgg	ctcctcagct	gcagccgctc	cgccctcctt	gctgttctct	ggatacgcca	3420
cactcagctc	ggcctcgggg	cctttgcact	ggctgtgtcc	cctgcctgtg	atgccattct	3480
cctctgcctg	gccaaactct	acgtttcttc	aagtctggac	cttgtcatcg	gctcctcagg	3540

aaggcaactcc	gggacccccca	gatggggggcg	gttccctgtg	actcctggca	cggaggccaa	3600
cccccttcctt	gttcaatggg	tccttgaggg	accattccca	tgtgattatc	gaccattcgg	3660
caggcggttca	aagtcaaagg	ccccacactg	agtcctggcc	cagcgccctg	tgcccgtgg	3720
ctgctggagg	gacagacggg	gcgtgcggct	gaccatcccg	tgcccgcagg	ctgaggatgc	3780
agcgctggaa	ggcggcgggc	ttggcctcag	tgctctgcag	ctccgtgctg	tccatctgga	3840
tgtgtcgaga	gggcctgctt	ctcagccacc	gcctcggacc	tgcgctgggtc	cccctgcacc	3900
gcctgcctcg	aaccctggac	gcccggattg	cccgccctggc	ccagtgtaaag	ctcctcctct	3960
gtgtgggggtc	agataccccc	aacgtaaggg	gtagaatttc	aggcagtggg	gtgggagggtg	4020
gggggggtgt	cataggtttt	ttaaagatag	ggccagccag	cccccttgca	gggaggcagg	4080
gacagacatc	ctaaaagatt	attcagggca	aggcatggtg	gcgcctgcct	aactccag	4140
cactttggga	ggctgagaca	ggaggatctc	ttgagccag	gagttcatga	ccagccaggg	4200
caatgtagcg	agaccgccat	ctctacaaaa	aacttcagaa	attagccagg	tgtagtggcg	4260
cacgcctgta	gttccagcta	cttgggaggc	tgagggtggga	ggatcacttg	agcccaagag	4320
ttcaaggctg	cattgagcta	tgattgcacc	actatactcc	agcctgagca	acagagcaag	4380
attctgtctc	aaaacattat	aataataaat	acattttcta	aaaaaagatg	gggtggaggg	4440
aggttgcaaa	ttcccccaat	ggcctggtgg	agctaggggtg	acttctggga	actggggtct	4500
ttcggctcag	ctgtcacaa	gaattaggct	ctgccctgag	gtcccgtgg	ggccagatgg	4560
agattagacc	tgggcattcg	cctggttggc	ccccgcggcg	cagcaggggg	ggcgtgggga	4620
ggagagagag	gctggatctg	aggtcccagt	gacctgcccc	aggggacagg	gaccaagggg	4680
agggcgggaga	tggagcagga	gctaaaaaac	ggaagaaaag	cccagagatt	cgaagggtg	4740
aggaggggtg	gagagaggag	agacggggct	gggggcacag	acacgggcaa	aagtgtgct	4800
atagggacac	agaaatgccc	accctgaggg	caagaccctc	gcccactcc	ccaccaatcc	4860
ctaattgcctg	ccccaccgca	ggtgctgtgg	ggtgaggggtg	gtgcgtgggc	cctgaccctt	4920
gtgcccacgc	acatgtccat	gcgtgcgcct	gcgcggggcat	tgaggcggtg	gatgccggca	4980
gggtgcgtgt	gcagcgcctt	tgggtgtggg	ccacgagtag	gcccattgtc	gcgtctgcgc	5040
cgccccctgc	cagcccacac	aatcctcttt	tcttgtcctt	acaatgcaca	agggtgccct	5100
ccagcacgag	ctccacttct	gtcctccac	cacttccctc	tctgcaagcg	gcgtgaagtc	5160
cttcctagga	ctctgggaca	gagaccggg	cgggaccccc	aaaatccagt	gctccaggac	5220
ttgggggtgcg	gggggcaaa	cacgaatgga	ggaatttcag	gcactgcgga	gggtcagggc	5280
ccatgggcgg	gtgcctgtct	gccctactgc	aaaaagcgag	tggccactga	ctccccagt	5340
ccccatgttc	taggtcctctg	gtggaatttc	aggtctggga	ccttgtgttc	tagccccctgt	5400
gcaagcagcc	agcccccggt	gcagggaggg	agggacagac	atcctaaaaag	atgattcatt	5460
ggtgccaggt	gcggtggctc	acgcctgtga	tcccagcact	ttgggaggcc	gaggtgggcg	5520
gatcacgagg	tcaggagatg	gagaccattc	tggctaacac	tgtgaaaccc	tgtctctact	5580
aaaattacaa	aaaaatttagc	cgggcgtggt	ggcgggcgcc	tgtagtccca	gctactcggg	5640
aggctgaggc	gggagaatgg	cgtgaacccg	ggaggcggag	cttgcaagtga	gccgagatcg	5700
cgccactgca	ctccagcctg	ggcgacagag	cgagactccg	tctcaaaaaa	aaaa	5754

<210> 1916
 <211> 294
 <212> DNA
 <213> Homo sapiens

<400> 1916						
gcgcgggtggc	tcacgcctgt	aatcccagca	ctttgggagg	ctgaggcggg	cggatcacga	60
ggtcaggaga	tcgagaccat	cctggctaac	acggtgaaac	cccatctcta	ctaaaaatac	120
aaaaaatttag	ccgggcgagg	tggcgggtgc	ctgtagtccc	agctactcgg	gaggctgagg	180
caggagaatg	gcgtgaaccc	gggaagcgga	gcttgcaagt	agccgagatt	gcgccattgc	240
actccagcct	gggtgacagc	gagactccgt	ctcaaaaaaa	aaaaaaaaag	aagt	294

<210> 1917
 <211> 196
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (106)..(106)
 <223> n equals a,t,g, or c

<400> 1917
 tctactaaaa atacaaaaaa ttagccgggc gtagtggcgg gcgcctgtag tcccagctac 60
 ttgggaggct gaggcaggag aatggcgtga acccgggagg cggacntgca gtgagccgag 120
 atcccgccac tgcactccag cctggggcgac agagcgagac tccgtctcaa aaaaaaaaaa 180
 aaaaaaaaaa gaaata 196

<210> 1918
 <211> 100
 <212> DNA
 <213> Homo sapiens

<400> 1918
 ctgaggcagg agaatggcgt gaacccgaga ggcggagcct gcagtgagcc gagatcgcg 60
 cactgcactc cagcctgggc gacagagga gactcccctt 100

<210> 1919
 <211> 2364
 <212> DNA
 <213> Homo sapiens

<400> 1919
 ctcaactcctg taatcccagc actttgggag gccgaggcgg gcggatcacg aggtcaggag 60
 atcgagacca tcctggctaa cacggtgaaa ccccgctctt actaaaaata caaaaaaaaaa 120
 attagccggg cgtggttagcg ggcgcctgta gtcccagcta ctcgggaggc tgaggcagga 180
 gaatggcgtg aacctgggag gcggagcctg cagtgagccg agatcgcgcc actgcactcc 240
 agcctgggag acagagcgag actccgtctc aaaaaaaaaa aaaaaaaaaa aaaagaataa 300
 agtataagag aacatgagtg aatgctgtc atcttttttt ttttttcttc aaaaacaggg 360
 tctcaactttg tcaaccaggc tgcagtgcag tggcgcaatc atggctcact gcaacctcta 420
 gcacctgggc tcaagagctc aagagggtcct accaactcag cctcccaagg agctgggact 480
 acagggtgat gccaccacac cctaaggtaa atttttgtgt ttttatagag acaggttta 540
 ccatgttgcc caggtgttgc tgaaactcct gggcttaagg gatcgacca cctccatctc 600
 ccaaggcact gggattatag gcatgagcca ccggcctgg cctatcatca tttattcatt 660
 tatctcatcta tgcaaaaaata ttctttgagt gcctaattgc taagcaatgg gacaagcact 720
 ggcaagtcac actggcaaaa tatcatcccg ccaactcaagg agcttatagg tcagctgggg 780
 agacaaagaa gaacatgggc ccttgtaagt agctaagtat ggtgctaggg gaaatatcca 840
 taagttatgg gaaccagag gaattcattc atttattcgt ttagtaataa tttatgtgcc 900
 aaactcttgg gacccaatgg tgacctaaag agacaagaca catccacctacagtgtttac 960
 agagttagtg gggagacaga cattaatgaa atgctcttac agacctatca ttacctattg 1020
 tcatatgagt tatgaaagaa aaataacagg ccgggcatga tggctcacgc ctgtaatccc 1080
 agcactttgg gagaccaagg caggtggatc acttgaggtc aggagttcaa gaccagcctg 1140
 gccaacatga tgaaccccca tctctactaa aaatacaaaa aaaaaaaaaa tatctgggca 1200
 tgggtggcagg cagctgtaat cccagctact cgggaggctg aggcaggaaa ctcgcttgaa 1260
 cctgggaggc agagggttga ctgagctgag attgcaccac tgcaactccag cctgggtgac 1320
 agagcaagac tctgtcaaaa aaaaaaaaaa aaaagaaagg aaggaagga aggaaggaag 1380
 gaaggaagga aatagagtgt aagagggggg cctagtgtag tctaagatga ctcaggagaa 1440
 gctgttttag ctgatgcctg aagacggggt gcattgtaagt agttgagtag gtaaaagaga 1500
 ggggtactat catatcaggg attcgggaga aaaaaaaaga gagagagaga ggggaagagt 1560
 gctgtggacc cattgagctc cagcccagct ccaactctgt gggtcaggaa agactttcca 1620
 gcatctaagc tgagtccaga aggatgagta ggagtgagcc agctgaggag gagctggggt 1680
 ggaaggaaag cattccagag cagcagatag cttgtgcaaa ggcacacagg cagctgggtg 1740
 tgggtggctca cacctgtaat cccagcactg tgggaggcca agatgggtgg accgttttag 1800
 cccaggaatt caagaccaac ctggatgaca tagtgaaacc ctgtctctac caaaaaaaaaa 1860
 aaaaaaaaaa ttgaaaaaaa aaaagaagct gggcatggtg gcgtgcacct gtggtcccag 1920
 ctaccagga aactgaggtg ggagggaagt cgaggctgta gtgaacctg gtggcaccat 1980

tgcattccag	cccggttgac	agagcaaggg	cctgtacaaa	aaaaaaaaa	aaaaaagcat	2040
ggaggcaaca	gaacatagtg	gattggaagg	aaaaacaagt	ggttcagacc	aggtgcagtg	2100
gctcatgcct	gtaatcccag	cactttggga	ggccgaggcg	ggcagatcac	gaggtcagga	2160
gatcaagacc	atcctcgcta	acacagtga	accggtctc	tactaaaaat	acaaaaaaat	2220
tagccaggcg	tgggtggtgcg	tgctgtagtg	cccagctact	caagaggctg	aggcaggaga	2280
atggcgtgaa	cctgggaggg	agagcttgca	gtgagcggag	atcatgccac	tgcactccag	2340
cctgggcgac	agagcaagac	tcca				2340

<210> 1920

<211> 5755

<212> DNA

<213> Homo sapiens

<400> 1920

aagaccatcc	tggctaacac	ggtgaaaccc	tgtctctact	aaaaatacaa	aaaattagct	60
gggtgtggtg	gcgggcgcc	gtagtcccag	ctactctgga	ggctgaggca	ggagaatcgc	120
ttgaaccag	gaggcgagg	ttgcagtgag	cgagatcgc	gccactacac	tcagcctggg	180
cgacagagtg	agactccgtc	tcaaaaaaaa	aaaaaaaaatt	acttagacat	ggtggcacat	240
tcctttaatc	ccagctactt	gggaggctga	ggcaggagaa	tcacttgaac	ccaggagggtg	300
gaggttacag	tgagccgaga	tcgcaccact	gtgctccaca	ctccagcctg	ggcaacagag	360
tgaaactctg	tctcaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	ggaataaagg	ggatgggttt	420
gacatctgac	aaaatgctgc	tgctgccatc	cgcttctgca	aaacctcaag	aatgaaatgt	480
ccttcccatg	gcccacacga	ggccctgcac	gagetgtctc	atcccccttc	aaacctcctc	540
tcctctctct	tcccctcctc	actctgtca	gacacacggg	cctcctcact	gttcctccaa	600
caagccacgt	gtggtctgcc	ccagggcctt	ggcacaggcc	atgcctctgc	ctggaacacc	660
tgcccccaga	ttctcctatg	gctgacttct	cacacttggg	tcttagtgca	tgcacacct	720
cctcagggag	ggccccctgc	ccacccccag	tgaatctagc	cccattcagg	acagtcact	780
ttattatgca	ctgattgtat	actaagccca	gagacttcaa	ctgtggtttc	tttttcatcc	840
tcoccaataa	atccatccat	ccatccgttc	atcagacat	gaaattctgg	accctccaat	900
tcaggatctg	ggccacccag	tgcttagctt	tttttttttt	tttttttttt	ttttgcgaca	960
gagtttcatt	ctgtcaccca	ggctggagtg	cagtgggtgca	atctcagctc	actgcaacct	1020
ccgcctccc	ggttcaagcg	attctcctgc	ctcagcctcc	cgagtagctg	ggattacagg	1080
tgtgccacca	cgcccggtca	atttttgtat	ttgtagtaga	gacgggggtt	caccatattg	1140
gccagactgg	tcttgaacac	ctgacctcag	gtgatctgcc	ctcctcagcc	cccaaagtg	1200
ctgggattac	tacaggcatg	agccactgca	cccgctagcc	tagcttcttt	gtgttcatcc	1260
attcattcat	tcattcatte	atcattcagc	aaatgtctat	gagcgccctac	tctgagccac	1320
tgaaccagct	gggctggccc	tgggggagaa	tcgacttccc	ctgcaaattc	actctcatca	1380
gatccccagg	ctggtctagg	atttgtttag	atgcctcac	gttggggaac	tcattcctta	1440
ctaagaataa	ccaccaccaa	taccaaacag	tctcaagtac	caccaatagt	gctgagttct	1500
cagggtgact	acagcatctg	ctcccaagcc	cagcccagcc	catatggtgt	gtgctgtgtc	1560
aaagaacctg	ggttcaaate	ccatgtcctt	ttctaacctt	tggacagcc	cctacccatt	1620
ttgtgcctcg	gtttccctag	ctgtaaaatg	gagatagtag	tgctctctct	gtgggctcag	1680
caccaggcct	gttacacagc	tgggtgctta	taaatgtgtc	ctgttactta	aggctcgata	1740
tgtgtagctc	ctgtcgtcgc	cgtccatggg	ggtgagtggt	gtggggaagg	ggtggtttga	1800
gtttctgcac	atcaggacac	gaggcgcggt	ccatgcaaat	gaaatgcaaa	tcccatgcaa	1860
ataaatctct	gggtggtgca	aggctggagg	tacaagggtc	acgcatttgg	ggggcgccctg	1920
ggaaccccat	gaatcgagcc	caggcccggg	ggtgctgacc	cgcattccagc	ccggcttttca	1980
gtgctcgggtg	taaatgttta	cacctggcgg	gccgccaggct	ccacgcccgc	cccacactag	2040
gcagccagga	gggggaatgt	aaactcgggc	tgggggcccgc	gggacgctcg	ggaggagccc	2100
agacggagtc	gagtggtgtg	ggtgtgtaca	cgtgagttat	taaacaccga	ctgtatgcag	2160
tgaggaggat	gccaccaggc	actcacagca	ccaagtaact	ggtgcccga	tgggtaaagc	2220
tcagggcatt	cctggggggc	cactagcgcc	cctgcaccag	ccagagggtg	aagtgaatag	2280
ggtaggcagc	catggaaggc	tccctggagg	aggcaccctc	caagggtgaga	ttgcaagggg	2340
agtgaagct	aggtacagtg	actcacgcct	gtaatcccag	ctctttggga	ggccaaagtg	2400
gaaggatagc	ttgagcccag	gagtttgaga	ccagctggg	caacgttgtg	agattcccct	2460
ctctattaaa	caaaaacaaa	aacaaaaaaa	attaaaaaatt	agccaggcat	ggtggctcat	2520
gcctgtagtc	agtcctagct	acttgggagg	ctgaggtggg	aggatcgctt	gagccttaga	2580

ggtggaggct	gcagtgagct	gtgatcacac	cactgcactc	cagcctgggt	gacagagcaa	2640
gacctgtct	caaaaaaaaa	gaaagagaga	gagaaagaaa	gaaaggaaa	aaaggaagag	2700
aaaagaaaga	gagaagaaaa	aggaaagaaa	gagagagaga	gagaggaggc	tgggtgcggt	2760
ggctcatgcc	tgtaatccca	gcactttggg	aggccaaggt	ggcggatca	cttgagttca	2820
ggagcttgag	accagcatag	ctaacaggga	gaaaccctgt	ctctattaaa	aatacaaaaa	2880
ttagccagtc	atgctggcag	gtgcctgtaa	tcccagctac	tcagggggct	gaggccggag	2940
aatcgcttga	acccgggagg	cagaggttgc	agtgagctga	gattgcgcca	ctgcactcca	3000
gcctgagggg	caagagttag	actccatctc	caaaagaaaa	aaagaaaaag	agaaagaaag	3060
gggagtggga	gtggggaggg	agggaagaag	tgttctccat	gcaaggacct	atctgtgcaa	3120
aagcccagag	ctgggactcc	atgtccaggg	cagctctggt	ccattgctgc	ccacttctgg	3180
gcctgcttat	ccatctggat	gggaaacagg	ctcagagagg	ggcagagtca	atggaggaca	3240
ccagcatgta	gggaacagtg	tcaagccagg	attcctgctc	ccagactgtc	ctaaacacca	3300
ccctccccgc	gcctttgtcc	cacactgcca	cctgcggga	atgacctctc	ctcctttcac	3360
tcttccccct	ggctcctcag	ctgcagccgc	tccggcctcc	ttgctgttcc	tgggatacgc	3420
cacactcagt	ctggcctcgg	ggcctttgca	ctggctgtgt	cccctgcctg	tgatgcatt	3480
ctcctctgcc	tggccaactc	ctacgtttat	tcaagtctgg	acctgtgcat	cggctcctca	3540
ggaaggcact	ccgggacccc	cagatggggg	cggttccctg	tgactcctgg	cacggaggcc	3600
aacccttcc	ttgttcaatg	gttccttgag	ggaccattcc	catgtgatta	tcgaccattc	3660
ggcaggcggt	caaagtcaaa	ggccccacac	tgagtcctgg	cccagcgccc	tgtgcccgtt	3720
ggctgctgga	gggacagacg	gggctgtcgg	ctgaccatcc	cgtgcccgca	ggctgaggat	3780
gcagcgctgg	aaggcggcgg	ccttggcctc	agtgcctcag	agctccgtgc	tgtccatctg	3840
gatgtgtcga	gagggcctgc	ttctcagcca	ccgcctcgga	cctgcgctggt	ccccctgca	3900
ccgcctgcct	cgaaccctgg	acgcccggat	tgccgcctg	gccagtgta	agctcctcct	3960
ctgtgtgggg	tcagataccc	ccaacgtaag	gggtagaatt	tcaggcagtg	gagtgggagg	4020
tggggggggg	gtcatagggt	ttttaaaagat	agggccagcc	agcccccttg	cagggaggca	4080
gggacagaca	tcctaaaaga	ttattcaggg	caaggcatgg	tggcgccctg	ctataatccc	4140
agcacttttg	gaggctgaga	caggaggatc	tcttgagccc	aggagttcat	gaccagccag	4200
ggcaatgtag	cgagaccgcc	atctctacaa	aaaacttcag	aaattagcca	ggtgtagtgg	4260
cgcacgcctg	tagttccagc	tacttgggag	gctgaggtgg	gaggtcact	tgagcccaag	4320
agttcaaggc	tgcattgagc	tatgattgca	ccactatact	ccagcctgag	caacagagca	4380
agattctgtc	tcaaaacatt	ataataataa	atacattttc	taaaaaaaga	tggggtggag	4440
ggaggttgca	aattccccca	atggcctggt	ggagctaggg	tgacttctgg	gaactggggt	4500
ctttcggctc	agctgtcaca	aggaattagg	ctctgccctg	aggtcccctg	ggggccagat	4560
ggagattaga	cctgggcatt	cgcttggttg	gccccgcggg	cgcagcaggg	ggggcggtgg	4620
gaggagagag	aggctggatc	tgaggtccca	gtgacctgcc	ccaggggaca	gggaccaagg	4680
ggaggcggga	gatggagcag	gagctaataa	ccggaagaa	ggcccagaga	ttcgaagggg	4740
tgaggagggg	tggagagagg	agagacgggg	ctgggggcac	agacacgggc	aaaagtgtctg	4800
ctatagggac	acagaaatgc	ccaccctgag	ggcaagaccc	tcgcccact	ccccaccaat	4860
ccctaattgcc	tgccccaccg	caggtgctgt	ggggtgaggg	tgggtgcgtg	gccctgaccc	4920
ctgtgcccac	gcacatgtcc	atgcgtgcgc	ctgcgcgggc	atctgaggcg	tggatgcggg	4980
caggggtgct	gtgcagcgcc	tttgggtgtg	ggccacgagt	acgcccattg	gcgcgtctgc	5040
gcccgcctct	gccagcccac	acaatcctct	tttcttgtcc	ttacaatgca	caagggtggc	5100
ctccagcacg	agctccactt	ctgtcctccc	acacttccc	tctctgcaag	cggcgtgaag	5160
tccttccctag	gactctggga	cagagacccg	gttcgggacc	ccaaaatcca	gtgctccagg	5220
acttggggtg	cgggggggcaa	agcacgaatg	gaggaatttc	aggcactgcg	gagggtcagg	5280
gcccattggg	gggtgcctgt	ctgccctact	gcaaaaagcg	agtggccact	gactccccaa	5340
gtccccatgt	tctaggctcc	tgggtggaatt	tcaggctggg	gacctgtgtg	tctagcccct	5400
gtgcaagcag	ccagccccgt	tgcagggagg	cagggacaga	catcctaaaa	gatgattcat	5460
tgttgccagg	tgcggtggct	cacgcctgtg	atcccagcac	tttgggaggc	cgaggtgggc	5520
ggatcacgag	gtcaggagat	ggagaccatt	ctggctaaca	ctgtgaaacc	ctgtctctac	5580
taaaattaca	aaaaaattag	ccgggcgtgg	tggcgggcgc	ctgtagtccc	agctactcgg	5640
gaggctgagg	cgggagaatg	gcgtgaaccc	gggaggcgga	gcttgacagt	agccgagatc	5700
gcgccactgc	actccagcct	gggcgacaga	gcgagactcc	gtctcaaaaa	aaaaa	5755

<210> 1921

<211> 183

<212> DNA

<213> Homo sapiens

<400> 1921

gaaaaattta	gccgggctg	gtggcggcg	catgtagtcc	cggctactcg	ggaggctgag	60
gcaggagaat	ggcgtgaacc	cgggaggcgg	agcttgacgt	gagccgagat	ggcgccactg	120
cactccagcc	tgggcgacag	agcgagctc	cgtctcaaaa	aaaaaaaaaa	aaataataat	180
gaa						183

<210> 1922

<211> 292

<212> DNA

<213> Homo sapiens

<400> 1922

tggctcaagc	ctgtaatccc	agcacttttg	gaggtcgagg	cgggcggatc	acgaggctcag	60
gagatcgaga	ccatcctggc	taacacgggt	aaaccttgct	tctactaaaa	atacaaaaat	120
tagccgggca	tagtggcggg	cgcctgtagt	cctagctact	cgggaggctg	aggcaggaga	180
atggcgtgaa	cccgggaggt	ggagcttgca	gtgagctgag	attgcgccac	tgactccag	240
cctgggtgac	agagtgaac	tccgctcaa	aaaaaaaaaa	aaaattaaaa	aa	292

<210> 1923

<211> 181

<212> DNA

<213> Homo sapiens

<400> 1923

caaaagttag	ccgggcgtag	tggcgggccc	ctgtggtccc	agctactcgg	gaggctgagg	60
caggagaatg	gcgtgaaccc	gggaggcgga	gcttgacgtg	agccgagatc	ggcgccactg	120
actccagcct	gggtgacaga	gcgagactcc	gtctcaaaaa	aaaaaaaaaa	aaaaaaagat	180
t						181

<210> 1924

<211> 123

<212> DNA

<213> Homo sapiens

<400> 1924

aggcaggaga	atggcgtgaa	cccgggaggc	ggagcttgca	gtgagccgag	atcccgccac	60
tgactccag	cctgggcgac	agagcgagct	ccgtctcaaa	aaaaaaaaaa	aaaaatgctg	120
tta						123

<210> 1925

<211> 270

<212> DNA

<213> Homo sapiens

<400> 1925

tgggaggccg	aggcagggtg	atcacgaggt	caggagatcg	agaccatcct	ggctaacacg	60
gtgaaacccc	gtctctacta	aaaatacaaa	aaattagccg	ggcgtggtgg	cgggcgcctg	120
tagtcccagc	tactcgggag	actgaggcag	gagaatggcg	tgaacccggg	aggcggagct	180
tgacgtgagc	cgagatcgcg	cccdgcact	ccagcctggg	cgacagagcg	agactccgcc	240
tcgaaaaaac	aaaaacaaaa	acacaaagtc				270

<210> 1926

<211> 303

<212> DNA

<213> Homo sapiens

<400> 1926							
ggttgggggc	tgcggccttg	cgggctgcgc	gagctggagg	tgcgcgtgag	cgagctggg		60
ctgggctacg	cgtccgacga	gacggtgctg	ttccgctact	gcgcaggcgc	ctgcgaggct		120
gccgcgcgcg	tctacgacct	cgggctgcga	cgactgcgcc	agcggcggcg	cctgcgcggg		180
gagcgggtgc	gcgcgcagcc	ctgctgcgcg	ccgacggcct	acgaggacga	ggtgtccttc		240
ctggacgcgc	acagccgcta	cacacgggtg	cacgagctgt	cggcgcgcga	gtgcgcctgc		300
gtg							303

<210> 1927
 <211> 8680
 <212> DNA
 <213> Homo sapiens

<400> 1927							
cctcagcggc	cgggcccacg	gccccgagca	gccatgctgg	gcgcgcgggc	ctggtgggc		60
cgcgctcttc	tgctgccccg	cgccgggtgca	ggcctcgccg	cgagccgcag	gtacggggcg		120
gcgagcgggc	ccctagggca	ctccctgcgc	ctgcctgcgg	gcccagtgga	gggtcttccg		180
gacaccggtc	cccagtgcc	gtctggacca	cccctgcatt	cctggccctt	ccccacccc		240
cacctccggt	ctgctcctga	gacctggctc	tggtgtgaag	gccctcctcc	cctcctctcc		300
cgctcctcat	ccttccctcc	tctcccttcc	cttccagtgc	agtgccagct	cctcagggac		360
tgctctgaca	ctgcttccag	gaagccttcc	ttgcaccca	gtgctggatg	ctgggtcaag		420
ggcctttctc	caatagtacc	ctgtgccctg	tcacagtcc	ttattgctgcat	ggaccttt		480
cgttatttag	gtctgcctgc	agtcccactt	ccaggctgaa	ctccctgagg	tctctgattc		540
cctaggtgtc	ctggagtgct	gcccaggacc	tggccccaca	ggagtcccag	caggtgggcg		600
ctgagtgagg	gagtccccat	gtctggtttc	ctctgtttgt	ccctcacctg	gtcgagtccc		660
agaccctact	gatcttgcc	tgtccagcca	ccaacagtag	gctgccttcc	agtggggcca		720
caccagggcc	tgccagagag	atgcctccaa	gcagctgctc	caggaagggc	cgggggaggg		780
gcctggggag	gggtaagaat	ggagcccca	gaaccattct	gcccattgtg	acccgccctg		840
acctcacagc	catccttccc	accgccaggc	ccaggaggtt	ggggggact	aacctggcaa		900
ggagcccca	atgagccacc	tctcctcacc	ccccaaaaa	cataaggggg	agcacaaggg		960
ccacagtctc	ccccatgggt	cagaaagggt	ggttgggctg	ggagcagggg	tcctactggg		1020
gtgctgagtg	aaatggagca	ggtgctgggg	ggcctgggag	aaggtgggtg	gaggccctg		1080
gcttgccctg	tgacaccagt	ctcgccaggg	gtagctcctc	ccgggacaag	gaccgaagtg		1140
cgacgggtcag	tagttcagtg	cccatgcctg	ctggagggaa	aggaagccat	ccttcatcta		1200
caccccagag	ggtccccaac	cgctgatcc	acgagaagtc	accatacctc	ctacaacatg		1260
cctacaatcc	tgtggactgg	tgagcacctc	tcctggggcc	ctgcctggaa	tcgctggggt		1320
cctggggccc	tcccagaccc	cctgggctac	tgagtgatgc	cccaccctgc	tgggtctagg		1380
taccctggg	gacaggaagc	cttcgacaag	gccaggaagg	aaaacaagcc	gattttcctc		1440
tcaggtaatg	ctcccacctt	ccctgatgtg	ggggtgtggg	cagggagtgg	cagtggatgg		1500
gggaggggtc	tctcggcctg	gcgggtcttc	caggagacta	gaggccagga	cgtcttccat		1560
gtagccaggg	ccacttggcc	agcctccctc	tgaccggtg	ctggccccct	gacctctccc		1620
catggccctg	ttcagtcggg	tactccacct	gccactggtg	ccacatgatg	gaagaggagt		1680
ccttccagaa	tgaggagatt	ggccgcctgc	tcaaggagga	ctttgtgagt	gtgaaggtag		1740
accgtgagga	gcggcctgac	gtggacaagg	tgtacatgac	gttcgtgcag	gtgagcagcc		1800
ctcctcgga	gtgtatgcgc	cacatgggct	cagagcagct	cccctcacc	tcgccctctc		1860
tccgccaggc	caccagcagc	ggcgggggct	ggcccatgaa	tgtgtggctg	actcccaacc		1920
tccagccctt	tgctgggggc	acctatttcc	ctcctgagga	tggttgacc	cgagtgggct		1980
tccgcacagt	gttgctgaga	atacgagaac	aggtgggtgt	gcctccggga	gttgggggac		2040
cagggtggg	gactaggaaa	caagagcccc	tccccctagc	tgacctccag	gtgtgcccc		2100
acctcccgca	gtggaaacag	aacaagaa	ccctgctaga	aaatagccag	cgtgtcacca		2160
ctgccctgct	ggccccgatca	gagatcagcg	tgggtgaccg	ccagctgccg	ccctctgccg		2220
ccaccgtgaa	caatcgctgc	ttccagcagc	tggatgaggg	ctatgatgag	gaatacgggtg		2280
gcttcgctga	ggcccccaag	tttcccacgc	cgggtcagtg	ccccacgccc	gccttagccc		2340
aggctttggc	cttctgattc	ctatgctggt	caggaccta	ctggctcctg	gcctcaccca		2400
tagcttctctg	tcctcctgac	tggcagtgac	ctccttgccc	ctagcctgtc	ggtagctatc		2460
ggtgaagacc	cgactgctgg	tgtcagcagt	gacctctca	ccttaaccta	gatgatgacc		2520

ttctgtcccc	tgacttggtc	agttaccag	tgacctgac	ttggctaattg	acatttctggg	2580
ctctaggggg	acaagtaact	tactgggtcct	ctgtgaacca	atgatatctt	gacctctggc	2640
ttaggctatt	accttctgtc	ctgtgggttg	actcttgacc	tcacagcctg	tccagagact	2700
gcctgttgag	tgaactccca	gcctctgcct	ggcccaaggc	ctcctgacca	ccgatctc	2760
tgtccccact	ttcccattct	ctcacctgca	tgttcttgg	gccccacag	tgatcctgag	2820
cttcctgttc	tccactggc	tcagccatcg	actgactcag	gatggctctc	gggcccagca	2880
gatggccttg	cataccctga	aaatgatggc	taacgggggc	atccgggacc	atgtggggca	2940
ggtgacgggc	actgggtgtt	ccctggaggg	gcagcagggg	gctgtggggg	ggggcagaag	3000
ctgggactgg	cctccagctt	tgtatccgca	cagggtttc	accgctactc	cacagaccgc	3060
cagtggcacg	tccctcactt	tgagaagatg	ctctatgacc	aggcacagct	cgctgtggcc	3120
tattcgcagg	ccttccaggt	gacctctgac	cccagcccag	agaacagg	tctcactctg	3180
gctgcccctc	ccaaggcctt	cctgggtgact	tgggtcttc	ttaatctgaa	tcccctgttc	3240
cctcccatgt	accactacc	caggcttccc	tccccgcct	gcctcagaga	atgttgccac	3300
cttcacactg	ggcctcccca	gtgacctctc	tgttcacagt	ctcctttctt	ccctttctta	3360
gctctctgg	gatgaattct	actctgacgt	ggccaaaggc	atcctgcagt	acgtggctcg	3420
gagcctgagc	caccgggtgt	gtgtccatgg	tggcaggcag	gcctggctgt	gggaggggtt	3480
ggggcctcca	ctgccctgtg	ggccggggcc	agccaactct	cccctcccca	cagtccggag	3540
gcttctatag	cgcagaagat	gcagactcgc	ccccagagcg	gggcagcgg	cccaaagagg	3600
gcgccacta	tgtgtggacg	gtcaaagagg	ttcagcagct	cctcccggag	cctgtgttgg	3660
gtgccaccga	gccgtgacc	tcaggccagc	tccctctgaa	gcactacggc	ctcacagagg	3720
ctggtaacat	cagccccagt	caggtgagga	cttctgggg	cacctgacgg	gccctggtgc	3780
ctgccaggcg	tgtgagctcg	cagacaaagg	ccattctcct	caggaccca	agggggagct	3840
gcagggccag	aatgtgctga	ccgtccggta	ctcgtggag	ctgactgctg	cccgttttgg	3900
cttggtatgtg	gaggccgtgc	ggaccttgct	caattcaggg	ctggagaagc	tcttccaggc	3960
ccggaagcat	cggcccaagc	cgcacctgga	cagcaag	ctggctgcct	ggaatggtgg	4020
ggcagcacac	ctgagaccga	gcctgtctgt	aggatcccc	ttcaciaaagc	ccctgtcttt	4080
ccggcagcgg	ctaaatgtct	actctccctt	gattagcgtt	attattctca	gttgacaaaa	4140
gaggcttaag	gagcttgagt	aaccgcacca	aggtcacgcg	caagggtctg	gaaccccgcc	4200
atgtctggct	ttggagccca	agatcttagg	gatcacccat	ggctccaggg	aggtgttggg	4260
gcctaagggtg	atagggtgga	catgcctgga	gggtcctggc	cagcttctta	ccactacttg	4320
tctctcctgg	ctccaggctt	gatggtgtca	ggctatgctg	tgactggggc	tgtcctgggc	4380
caagacaggc	tgatcaacta	tgccaccaat	gggccaagt	tcctgaagcg	gcacatgttt	4440
gatgtggcca	gtggccgcct	gatgcggacc	tgtacacccg	gccctggggg	gactgtggag	4500
cacaggtttg	gggctgggta	gaccgggagg	gccgtctcc	ccaacgcgtc	cccagcctac	4560
ctctgcccta	cttctccctt	ccatgtggac	tccagtccg	gctctgccag	gtgcttgctg	4620
tgagtttgta	gttccctgg	gccattttac	tcatctggga	agtgggctga	tggcacctgc	4680
ccaagagggt	tcatctggag	gggttaagtga	acaaatgcgt	gaaagggcct	cctctgggaa	4740
aggccctctc	tccctggggct	ctcccagcc	cctcccgtaa	tgcctgtccc	ccagcaaccc	4800
accctgctgg	ggcttccctg	aggactcgc	cttcgtgggtg	cggggcctgc	tggacctgta	4860
tgaggcctca	caggagagtg	cgtggctcga	gtgggctctg	cggctgcagg	acacacagga	4920
caagctcttt	tgggactccc	agggtggcgg	ctacttctgc	agtgaggctg	agctgggggc	4980
tggcctgccc	ctgcgtctga	aggacgggtca	gtgggggtgc	agggctagtc	tggggctctg	5040
ggaggtgtaa	gtgcagcgtg	ggtgaagagc	tgggtgtggc	aggagccctc	ctggctttgt	5100
gtctctgcta	cttattaatg	gcgtgatttt	tggctgctgt	aatatttctg	tgtctcaatt	5160
tctttttttt	aaatagagac	agagtcttgc	tatgttgccc	aggctgatct	tgaaatcctg	5220
ggctcaagtg	atcctccac	tcggcctcc	caaagtgcgt	ggattacagg	catgaaccac	5280
tacactcagc	gtgttttgtt	tcgttccctt	cttttctttt	tatttccctt	ctctttcttt	5340
ctttctcttt	cctttcttcc	tttctttctt	ttctttctct	ctttctttct	cttttttttt	5400
tttttttgag	acagggtctc	actgtcaccc	aggctggaat	gcagtggcat	gacttggct	5460
cacagcaaac	tctgcctccg	gggctgaatc	aattctccca	cctcagcctc	ctgagttagct	5520
aggactatag	gcatgcacca	ccatgcctgg	ctaatttttt	gtagagatgg	gatttctcca	5580
tgttgcccag	gctggtctga	aactactggg	ctcaagtgat	ctgcccacct	cggcctccca	5640
aagtgcctgg	attacaggcg	agagccacca	tgcctggcct	gtttcttaat	aagtaaaatg	5700
gagctaacat	tggtagctacc	ttacaggggt	gatgtaaaga	tgaatgtagc	tgttctgtaa	5760
acatgcttag	cacagtaact	gacacccatg	gattcagata	ttgaccaagg	ctcacttggt	5820
ctctgccctc	atgaagctta	cagtatggta	ggggagacag	cgaataatgca	gtaatgatgc	5880
aaaaacacat	gcacaaatgt	gcagttaaaa	ttgtggtgag	tgccatgaag	aagtaggacg	5940

ctctatgtgt	gcctgctccc	tatcacccat	gtgccttgtc	tgtggttaaa	ggtttctttc	6000
ccaaaactca	aatttttagct	cctcaaagat	caggactttc	tgccactgtt	gtatccccag	6060
ggtctagtgt	ggttctggca	cattgtaagt	gcttaataaa	tgtaactga	gtgaatgaaa	6120
gggccttggg	agagaaccac	agaggaggac	caactcagcc	tagggagaga	ttagaggaca	6180
cctgtgacag	gtgtcattta	accaaggcct	ggagggaaa	aggggccatg	tggccatgga	6240
gaagctgtgg	agagagttca	ggcatagggg	gcagtgcatt	agggcctgg	tgcaggcagc	6300
ctgtatcctg	gaggacaggg	agggcccgcg	tgttccagga	gggcaccgag	gagaatgctg	6360
aggccggcag	ggcacggaag	ccgtcttttt	tttttttttt	tcctaagaaa	agaaggctgg	6420
tctcaaactc	ctgggctcag	gtgatcctcc	cgctctggct	tcccaggtgc	tgggactaca	6480
ggtgtgagcc	accatgcccg	gctggcaagg	aggttttaag	tggattgtga	tctgctctgg	6540
tatggtttta	aggaggtcac	tctgaccact	gatggagaga	agtgggggtg	ggggaaacag	6600
gcgaccagtt	aggaggccat	tactcgtgtt	cagtccaggc	aggcatttgt	gaaggctcag	6660
aggatgtgga	agtatgagat	ggggagacat	ggtgaattt	ggatctcttc	tggccacagc	6720
cctggcaaga	ctcacagatg	gattagaaag	ggagggagag	ggagaggaag	gggacaggat	6780
gatcgctctc	tagcttgagc	agctgagtgg	ctggacagag	gcatacagag	cgaggaggga	6840
gcctggagac	caacagttga	ggctaggaca	ggtagagtgg	aggggtgcat	aaaaaagaca	6900
gcaaagtact	gataactgct	ggagtggcat	ccacacccag	agcgggggag	gggcaggatg	6960
ggcagggcct	tttctctgtc	ccgtccccc	agtggccctg	gatacagttc	tgggcagggt	7020
cctgggactc	agtgaacctg	ccttaccccc	acccctgtgc	tccctatgtg	ctgtagacca	7080
ggatggagca	gagcccagcg	ccaattccgt	gtcagcccac	aacctgctcc	ggctgcatgg	7140
cttcacgggc	cacaaggact	ggatggacaa	gtgtgtgtgc	ctattgaccg	ccttttccga	7200
gcgcatgcgt	cgtgtcccgg	tggcgttgcc	cgagatggtc	cgccgcccct	cagcccagca	7260
gcagaccctc	aagcaggtgg	gggggtgagg	catctgggct	gggacctcgg	gtaggaggga	7320
agttggggct	gcgatggcag	atgggaacag	gggggtgggt	tcctgggctg	tccccagagc	7380
tcaggtctgt	gtgtgtgcag	gcacgtggcc	tgtcagacag	ggaggcagaa	gttaatatga	7440
gtccgtgggt	gctgatgaag	tgtttctctg	tacgtcttgg	tgtcagtgtg	attgcttctg	7500
tccatactgt	gttactgggt	tgtgtgtact	tccgggtgtg	tgtgacctg	gaggtgtgtg	7560
tctgtgcacc	tacctttgag	ggggatgctg	gtgtgagtgt	ttgtctgtct	gcatgtggat	7620
gccccatctg	caggtttgcc	tctgtgtctg	cctgcatgcg	tgtgtgtctg	gtgtttgtgt	7680
gtgtggtatc	tgcctctgtg	tgggcatcta	ctgtgtgtgt	gtgtgtgtgt	gtgtgtgtgt	7740
gtgtgtgtgt	gtgtgtgact	actctgtgtc	tgtctgaatg	ggctctctgt	tgtctctggg	7800
cttctgggtg	tgtgtctccc	catgtttgta	tctgtaccat	tgtgtatatg	tatgacattt	7860
ccacttcggt	attctcatgt	gtgagtgtgt	gtgtgtgttc	ccacttgcca	agcattaact	7920
catctatgca	gctgagatga	gtccctgttc	cttcttagag	atatacgggt	gggcgggaag	7980
aggatgggga	agccctgggt	gtctagggct	cagccctccc	tcccctgaca	caccggagtg	8040
acctttctat	tccggctcaga	tcgtgatctg	tggagaccgt	caggccaagg	acaccaaggc	8100
cctggtgcag	tgcgtccact	ctgtctacat	tcctaacaag	gtacccatccct	gtgagccc	8160
aatctgccac	ctccccagag	ctgccccctc	ccatccctcag	ctcctcaaca	tctccttccc	8220
ctcagaatgt	tgggaagagg	gaacttccca	gtgggccttt	ctaattgggca	ggtgacccca	8280
ccccggcagg	tgactctccc	tgctctgctg	ctgcccaggg	tgctgattct	ggctgatggg	8340
gacccctcga	gcttctctgt	ccgccagctg	cctttctctga	gtaccctccg	acggttggaa	8400
gaccaggcca	ctgcataatg	gtgtgagaat	caagcctgct	cagtgcccat	cactgatccc	8460
tgcgaattac	gaaaactact	acatccatga	ctgccccaac	ccccttgggg	tggggcagaa	8520
ggtgaagcat	cccaactgac	tagagactca	ggccctgcag	ggcctatag	aacctgtggc	8580
catccctgag	caccctgcca	ccaggtgacc	tcggccatac	tcactgcccc	ccttgggcac	8640
ccactcaccc	tagaataaac	ttaacagtgt	cccgtggtaa			8680

<210> 1928

<211> 8677

<212> DNA

<213> Homo sapiens

<400> 1928

cctcagcggc	ogggccacg	gccccgagca	gccatgctgg	gcgcgcgggc	ctggttgggc	60
cgcgtccttc	tgtgccccg	cgccgggtgca	ggcctcgccg	cgagccgcag	gtacgggcgg	120
gcgagcgggc	ccctagggca	ctccctgcgc	ctgcctgcgg	gcccagtgga	gggtcttccg	180
gacaccggtc	cccagtgcca	gtctggacca	cccctgcatg	cgggccctt	ccccacccc	240

acctccggtc	tgctcctgag	acctggctct	ggctgtaagg	ccctcctccc	ctcctctccc	300
gtcctcatcc	cttccctcct	ctccccctcc	ttccagtgca	gtgccagctc	ctcagggact	360
gttctgacac	tgcttccagg	aagccttcct	tgcacccag	tgctggatgc	tgggtcaagg	420
gcctttctcc	aatagtaccc	tgtgccctgt	cacagtcctt	tattgctgca	tggacctttc	480
gttatttagg	tctgcctgca	gtcccacttc	caggtgaaac	tccctgaggt	ctctgattcc	540
ctagggtgcc	tggagtctgg	cccaggacct	ggccccacag	gagtcaccag	agggtgggcg	600
tgagtgaggg	atgccccatg	tctggtttcc	tctgtttgtc	cctcacctgg	tcgagtccca	660
gacctactg	atcttggcct	gtccagccac	caacagtagg	ctgccttcca	gtggggccac	720
acccaggcct	gccagagaga	tgctccaag	cagctgctcc	aggaagggcc	gggggagggg	780
cctggggagg	ggtaagaatg	gagccccaag	aaccattctg	ccatttgta	cccgccctga	840
cctcacagcc	atccttccca	ccgccaggcc	caggagggtg	ggggagacta	acctggcaag	900
gagcccccaa	tgagccacct	ctcctcacc	cccaaaaaac	ataaggggga	gcacaaaggc	960
cacagtctcc	cccatggttc	agaaaggtgg	gttgggctgg	gagcaggggt	cctactgggg	1020
tgctgagtga	aatggagcag	gtgctggggg	gctgggaga	agggtgggtg	aggccccctg	1080
cttgctgat	gcaccagtcc	tcgccagggg	tagctcctcc	cgggacaagg	accgaagtgc	1140
gacggtcagt	agttcagtgc	ccatgcctgc	tggagggaag	ggaagccatc	cttcatctac	1200
acccagagg	gtccccaacc	gcctgatcca	cgagaagtca	ccatacctcc	tacaacatgc	1260
ctacaatcct	gtggactgg	gagcacctct	cctggggccc	tgccctggaat	cgctgggggc	1320
ctggggccct	ccagacccc	ctgggctact	gagtgatgcc	ccaccctgct	gggtctaggt	1380
accctgggg	accgaagcc	ttcgacaagg	ccaggaagga	aaacaagccg	atcttctct	1440
caggtaatgc	tcccaccttc	cctgatttgg	gggtgtgggc	aggagtggtg	agtggatggg	1500
ggagggtcct	ctcggcctgg	cggtctctcc	aggagactag	aggccaggac	gtcttccatg	1560
tagccagggc	cacttggcca	gcctccctct	gaccggttgc	tggccccctg	acctctcccc	1620
atggccctgt	tcagtcgggt	actccacctg	ccactgggtg	cacatgatgg	aagagggatc	1680
cttcagaaat	gaggagattg	gccgcctgct	cagtgaggac	tttgtgagt	tgaaggtaga	1740
ccgtgaggag	cggcctgacg	tggacaaggt	gtacatgacg	ttcgtgcagg	tgagcagccc	1800
tcctcgggag	actatgcgcc	acatgggctc	agacagctc	ccctcaccct	cgccctctct	1860
ccgccaggcc	accagcagcg	gcgggggctg	gcccataaat	gtgtggctga	ctcccaacct	1920
ccagcccttt	gtcgggggca	cctatttccc	tcctgaggat	ggcttgaccc	gagtcggctt	1980
ccgcacagt	ttgttgagaa	tacgagaaca	gggtgggtgtg	cctccgggag	ttgggggacc	2040
agggtggggg	actaggaaac	aagagccctt	ccccctagct	gacctccagg	gtgccccca	2100
cctcccgcag	tggaaacaga	acaagaacac	cctgctagaa	aatagccagc	gtgtcaccac	2160
tgccctgctg	gcccgatcag	agatcagcgt	gggtgaccgc	cagctgccgc	cctctgccgc	2220
caccgtgaac	aatcgctgct	tccagcagct	ggatgagggc	tatgatgagg	aatacgggtg	2280
cttcgctgag	gcccacaagt	ttcccaagcc	gggtcagtgc	cccacgccc	ccttagccca	2340
ggctttggcc	ttctgattcc	tatgctggtc	agggacctac	tggtcctgg	cctcaccat	2400
agcttctgt	cctcctgact	ggcagtgacc	tccttgcccc	tagcctgtcg	gtagctatcg	2460
gtgaagaccc	gactgctgg	gtcagcagt	accctctcac	cttaactag	atgatgacct	2520
tctgtccct	gacttgggtc	gtgaccaggt	gacctgact	tggctaata	cattctgggc	2580
tctaggggga	caagtaactt	actggtcctc	tgtgaaccaa	tgatattctg	acctctggct	2640
taggtatta	ccttctgtcc	tgtgggttga	ctcttgacct	cacagcctgt	ccagagactg	2700
cctgttgagt	gaactcccag	cctctgcctg	gcccaggcc	tcctgaccac	cccgatctct	2760
gtcccactt	tcccattctc	tcacctgcat	gttcttgggt	ccccacagt	gacctgagc	2820
ttcctgttct	cctactggct	cagccatcga	ctgactcagg	atggctctcg	ggcccagcag	2880
atggccttgc	ataccctgaa	aatgatggct	aacgggggcat	ccgggacca	tgtggggcag	2940
gtgacgggca	ctgggtgttc	cctggagggg	cagcaggggg	ctgtggggtg	gggcagaagc	3000
tgggactggc	ctccagcttt	gtatccgcac	aggcctttca	ccgctactcc	acagaccgcc	3060
agtggcacgt	ccctcacttt	gagaagatgc	tctatgacca	ggcacagctc	gctgtggcct	3120
attcgcaggc	cttcaggtg	acccctgacc	ccagcccaga	gaacaggcat	ctcactctgg	3180
ctgcccctcc	caaggccttc	ctggtgactg	tggcttctct	taatctgaat	cccctgttcc	3240
ctcccatgta	ccactaccc	aggcttcct	ccccgcctg	cctcagagaa	tgttgccacc	3300
ttccacctgg	gcctccccag	tgacctctct	gttcagagtc	tcctttcttc	cctttcttag	3360
ctctctgggt	atgaattcta	ctctgacgtg	gccaaaggca	tcctgcagta	cgtgggtcgg	3420
agcctgagcc	accgggtgtg	tgtccatggt	ccagggcagg	cctggctgtg	ggagggggtg	3480
gggcctccac	tgcctgttgg	gccggggcca	gccaaactct	ccctccccac	agtccggagg	3540
cttctatagc	gcagaagatg	cagactcgcc	cccagagcgg	ggccagcggc	ccaaagaggg	3600
cgcctactat	gtgtggacgg	tcaaagaggt	tcagcagctc	ctgccggagc	ctgtgttggg	3660

tgccaccgag	ccgctgacct	caggccagct	cctcatgaag	cactacggcc	tcacagaggg	3720
tggtaacatc	agccccagtc	aggtgaggac	ttctggggtc	acctgacggg	ccctgggtgcc	3780
tgccaggcgt	gtgagctcgc	agacaaaggc	catttctcctc	aggaccccaa	gggggagctg	3840
cagggccaga	atgtgctgac	cgtccggtac	tcgttgagac	tgactgctgc	ccgctttggc	3900
ttggatgtgg	aggccgtgcg	gaccttgctc	aattcagggc	tggagaagct	cttccagggc	3960
cggaagcatc	ggcccaagcc	gcacctggac	agcaagatgc	tggtgcctg	gaatgggtgg	4020
gcagcacacc	tgagaccgag	cctgtctgta	ggatccccct	tcacaaagcc	cctgtctttc	4080
cggcagcggc	taaagtctca	ctctcccttg	attagcgtta	ttattctcag	ttgacaaaag	4140
aggcttaagg	agcttgagta	accgccccaa	ggtcacgcgc	aagggtctgg	aaccccccca	4200
tgtctggctt	tggagcccaa	gatcttaggg	atcaccocatg	gctccaggga	ggtgttgggg	4260
cctaagggtg	taggggtggac	atgcctggag	ggctcctggcc	agcttcttac	cactacttgt	4320
ctctcctggc	tccaggcttg	atggtgtcag	gctatgctgt	gactggggct	gtccggggc	4380
aagacaggct	gatcaactat	gccaccaatg	gtgccaagtt	cctgaagcgg	cacatgtttg	4440
atgtggccag	tggcgacctg	atgcggacct	gctacaccgg	ccctgggggg	actgtggagc	4500
acaggttggg	ggctgggtag	accgggaggg	cccgctctccc	caacgcgtcc	ccagcctacc	4560
tctgccctac	ttctcccttc	catgtggact	ccagtcctgg	ctctgccagg	tgtttgctgt	4620
gagttttag	cttccctggg	cccatttact	catctgggaa	gtgggctgat	ggcacctgcc	4680
caagagggtt	catctggagg	gttaagtga	caaatgcgtg	aaagggcctc	ctctgggaaa	4740
ggccctctct	cctggggctc	tccccagccc	ctcccgtaat	gcctgtccccag	caaccca	4800
ccctgctggg	gcttcttgga	ggactacgcc	ttcgttggtgc	ggggcctgct	ggacctgtat	4860
gagctcctac	gtgagatgc	gtggctcgag	tgggtctgc	ggctgcagga	cacacaggac	4920
aagctctttt	gggactccca	gggtggcggc	tacttctgca	gtgaggctga	gctgggggct	4980
ggcctgcccc	tgcgtctgaa	ggacggtcag	tgggggtgca	gggctagtct	ggggctcctg	5040
gaggtgtaag	tgcagcgtgg	gtgaagagct	ggtgtgggca	ggagccctcc	tggctttgtg	5100
tctctgctac	ttattaatgg	cgtgattttt	ggctgctgta	atatttctgt	gtctcaattt	5160
ctttttttta	aatagagaca	gagtcttgct	atgttgccca	ggctgatctt	gaaatcctgg	5220
gctcaagtga	tcctcccacc	tcggcctccc	aaagtgcctg	gattacaggc	atgaaccact	5280
acactcagcg	gtttttgttt	cgttcctttc	ttttcttttt	atttcctttc	tctttctttc	5340
tttctctttc	ctttcttctt	ttctttcttt	tctttctctc	tttctttctc	tttttttttt	5400
ttttttgaga	cagggctctca	ctgtcaccca	ggctggaatg	cagtggcatg	atcttggctc	5460
acagcaacct	ctgcctccgg	ggctgaatca	attctcccac	ctcagcctcc	tgagtagcta	5520
ggactatagg	catgcaccac	catgcctggc	taattttttg	tagagatggg	atttctccat	5580
gttgcccagg	ctggtctgaa	actactgggc	tcaagtgat	tgccccacct	ggcctcccaa	5640
agtgtctggg	ttacaggcga	gagccaccat	gcctggcctg	tttcttaata	agtaaaatgg	5700
agctaacatt	ggtaactact	tacagggttg	atgtaaagat	gaatgtagct	gttctgtaaa	5760
catgcttagc	acagtaactg	acacccatgg	attcagatat	tgaccaaggc	tcacttggtc	5820
tctgccctca	tgaagcttac	agtatggtag	gggagacagc	gaaaatgcag	taatgatgca	5880
aaaacacatg	cacaaatgtg	cagttaaaat	tgtggtgagt	gccatgaaga	agtaggacgc	5940
tctatgtgtg	cctgctccct	atcacccatg	tgccctgtct	gtggttaaag	gtttcttttc	6000
caaaactcaa	atttttagctc	ctcaaagatc	agcctttct	gccactgttg	tatccccagg	6060
gtctagtgtg	gttctggcac	attgtaagtg	cttaataaat	gttaactgag	tgaatgaaag	6120
ggccttgagg	gagaaccaca	gaggaggacc	aactcagcct	aggagagat	tagaggacac	6180
ctgtgacagg	tgtcatttaa	ccaaggcctg	gagggaagaa	ggggccatgt	ggccatggag	6240
aagctgtgga	gagagttag	gcatagggag	cagtgcata	caggcctggg	gcaggcagcc	6300
tgtatcctgg	aggacaggca	gggcccgcgt	gttccaggag	ggcaccgagg	agaatgctga	6360
ggccggcagg	gcacggaagc	cgtctttttt	tttttttttt	cctaagaaaa	gaaggctggt	6420
ctcaaactcc	tgggtcaggg	tgatcctcc	gcctcggett	cccagggtgt	gggactacag	6480
gtgtgagcca	ccatgcccg	ctggcaagga	ggttttaagt	ggattgtgat	ctgctctggg	6540
atggttttaa	ggaggtcact	ctgaccactg	atggagagaa	gtgggggtgg	gggaaacagg	6600
cgaccagtta	ggaggccatt	actcgtgttc	agtccaggca	ggcattgggtg	aaggctcagg	6660
ggatgtggaa	gtatgagatg	gggagacatg	gtgagatttg	gatctcttct	ggccacagcc	6720
ctggcaagac	tcacagatgg	attagaagcg	gaggagagg	gagaggaagg	ggacaggatg	6780
atgccgctct	agcttgagca	gctgagtggc	tggacagagg	catcagcagc	gaggagggag	6840
cctggagacc	aacagttgag	gtaggacag	gtagagtgga	gggtgccata	aaaaagacag	6900
caaagtactg	ataactgctg	gagtggcatc	cacaccaga	gcggggaagg	ggcaggatgg	6960
gcagggcctt	ttctctgtcc	cgtcccccaa	gtggccctgg	atacagtcct	ggcgagggtc	7020
ctgggactca	gtgacctgcc	cttaccacca	ccccctgcct	ccctatgtgc	tgagaccag	7080

gatggagcag	agcccagcgc	caattccgtg	tcagcccaca	acctgctccg	gctgcatggc	7140
ttcacgggcc	acaaggactg	gatggacaag	tgtgtgtgcc	tattgaccgc	cttttccgag	7200
cgcatgcgtc	gtgtcccggg	ggcgttgccc	gagatgggcc	gcgccctctc	agcccagcag	7260
cagaccctca	agcagggtgg	gggtgagggc	atctgggctg	ggacctcggg	taggagggaa	7320
gttggggctg	cgatggcaga	tgggaacagg	gggtgggggt	cctgggctgt	ccccagagct	7380
cagggtctgtg	tgtgtgcagg	cacgtggcct	gtcagacagg	gaggcagaag	ttaatatgag	7440
tccgtgggtg	ctgatgaagt	gtttctctgt	acgtcttggg	gtcagtga	ttgcttctgt	7500
ccatactgtg	ttactgggtg	gtgtgtactt	ccgggtgtgt	gtgacctggg	aggtgtgtgt	7560
ctgtgcacct	acctttgagg	gggatgctgg	tgtgagtgtt	tgtctgtctg	catgtggatg	7620
ccccatctgc	aggtttgcct	ctgtgtctgc	ctgcatgcgt	gtgtgtctgg	tgtttgtgtg	7680
tgtggtatct	gcctctgtgt	gggcatctac	tgtgtgtgtg	tgtgtgtgtg	tgtgtgtgtg	7740
tgtgtgtgtg	tgtgactact	ctgtgtctgt	ctgaatgggt	ctctgtgtgc	tctgggtctt	7800
ctgggtgtgt	gtctcccat	gtttgtatct	gtaccattgt	gtatatgtat	gacatttcca	7860
cttcgggtatt	ctcatgtgtg	agtgtgtgtg	tgtgttccca	ctgccaagc	attaactcat	7920
cctggcagct	gagatgagtc	cctgttcctt	cttagagata	tacgggtggg	cggaaggagg	7980
atgggggaagc	cctgggtggc	tagggctcag	ccctccctcc	cctgacacac	cggagtgacc	8040
tttctattcc	ggtcagatcg	tgatctgtgg	agaccgtcag	gccaaggaca	ccaaggccct	8100
ggtgcagtgc	gtccactctg	tctacattcc	taacaaggta	cccatccctg	tgagcccaat	8160
ctgccacctc	cccagagctg	ccccctccca	ctctcagctc	ctcaacatct	ccttcccctc	8220
agaatgtttg	gaagagggaa	cttcccagtg	ggccttttcta	atgggcaggt	gacccacccc	8280
cggcaggtga	ctctccctgc	tctgctgctg	ccctagggc	tgattctggc	tgatggggac	8340
ccctcgagct	tcctgtcccg	ccagctgcct	ttcctgagta	ccctccgacg	gttggaagac	8400
caggccactg	catatgtgtg	tgagaatcaa	gcctgctcag	tgcccatcac	tgatccctgc	8460
gaattacgaa	aactactaca	tccatgactg	ccccaaacccc	cttgggggtg	ggcagaaggt	8520
gaagcatccc	aactgactag	agactcaggc	cctgcagggc	cctatagaac	ctgtggccat	8580
ccctgagcac	cctgccacca	ggtgacctcg	gccatactca	ctgccccctt	tgggcaccca	8640
ctcacccctag	aataaactta	acagtgtccc	gtggtaa			8677

<210> 1929

<211> 5846

<212> DNA

<213> Homo sapiens

<400> 1929

gctttatatg	agcttttata	tttcacagaa	tggtgacttt	gcataatgcc	tggtgcattg	60
tgggagctgc	tattgtcacg	actaagacat	ttcttttg	gtatccatct	agccccagcc	120
tcgaaaggat	ggaagcagg	cctccttgca	ggaggatcat	ttgtccattt	gtctgctttc	180
atacaagctg	gtccaaagaa	agagttctct	ttcgtttgga	acatctgttg	ggttggaagt	240
ccttccccea	atctatctga	gtccttcttg	ctgcagagaa	agccttccctg	tgacctcatc	300
ctttccccta	aatgttgga	aatgctcctg	agtcctgtcc	ttgacacata	catcttccct	360
gggttgagg	atggggactg	ggacacatg	tttgggaagg	gcagggtgcag	agtgatggg	420
ctgacgggg	gggggaagca	gggggaggag	ctgtccctct	gaggcccttg	ggaatcggt	480
gtgccaggca	tcctcagccc	tccagctaag	caacacagag	agccaaaaga	ggctactaga	540
gacaagaagg	ccttcatggg	gccactgctt	gtgggggatg	tcagcagtgg	ggaggagtga	600
agcagggaag	aaccgggaga	ctggatggaa	ttgtccctt	cacacgggtca	cacatagcca	660
cacatgggtca	ctgggaccag	agtcagctct	gtctgggcag	ccaggccctc	agtgcagcc	720
accagcccat	ctggaggga	ttagtgtctc	ggccaacaag	gtcagctggc	cccttccctag	780
ctggagccta	ctcaaccttg	ccagggaagtc	agagagctgg	acaagtggag	cccagcctgg	840
ggagggtggaa	gagagggagg	atggagcatg	gtgaagcaca	gggtggccttt	ttggcagccc	900
cagccctggc	tttggaacag	tctgggcagt	gtgccaaacc	ctcttgccac	tgctgtccca	960
ttgacctca	tgaatgagtt	gcgaggcagt	taccttcagc	ctcctatgga	taaatattcg	1020
agggccagag	agggtgaagag	acctgcctg	gaccctcag	cacttctgtt	tctctctggg	1080
gtcttgagg	tacaataaag	accctaagg	cttcccttc	tcgcaggagg	tccaggcgca	1140
gctgtgggg	agggtgccct	tggtgtcttc	tgtccctgca	gccagtctgc	tttctactcg	1200
gcagctcctc	tctccctct	gggatgagat	gtgcacgcga	tgatgggatt	ctgtaaatgg	1260
gttgggaaga	aggagttacc	tccttaaagg	gttagttctc	ccaggagtgc	tcgaatttct	1320
aaagggggca	gggtcccaca	taaattctcac	tcagaagcag	gattataaga	gttcctgcag	1380

catcccttcc	cctttgctgg	tccctcttga	gtgtgcaccc	tggtctaca	gcggaacacc	1440
tgccggccag	ggctactgga	gacagggcca	taccgtctgg	gcggtcactt	aagtaacttc	1500
atcattctga	gcacccccct	tccttatctg	aaaggtgggg	ggccatccac	ccagctctca	1560
gggctgttaa	ggtgactaaa	tgggataatg	gttgtatcat	ccctgagcaa	agggtatcac	1620
agatgggaag	attatcttag	ctccgcaggg	agccagatgg	gctgtgaggg	aggggtaaaag	1680
gcagggctgg	agggggctgg	aggggctggc	tgagcagggg	atatatgggg	ggggttcttc	1740
ctcaaaccca	gaaaaactct	tagttaggct	tagtgtcttt	gttgagaaac	tgaggcccaa	1800
agaaaggaat	ttcttgctcc	tttggttccc	tttccctgcc	tggttcatt	cattcaccta	1860
acaactttgt	gcccagacct	agacaaggcc	ctagttagca	aatgaacat	agcccctctg	1920
ggaacacaga	gcctagatag	ggagatgata	atttcattac	tgcaaacaca	aacatataat	1980
cccagcctgg	gctaagtgtc	gtgaagttcc	agacttgtgt	ctggctcggg	gctgtatcct	2040
aagcaccttg	gcacttaagt	ggcattgaaa	tacttgctgg	aaagaaggcc	actctgagga	2100
ggtgatgtca	gagctgaggg	ttggaggggt	ggagttaaat	aaagatgggt	tcaggtcttc	2160
tttgcccttc	ctgtagggtc	tgccctctgc	tcctctctgg	cactcaggct	aagggtgaagc	2220
atctccgact	ggccatcagc	cccaacatgc	cgagtacgg	gatcagatcc	tgtcttgctg	2280
ggccgggtctc	ccctaggtcc	tgaacccagg	gaagtgcata	tggtatctca	tttatctaga	2340
tggtgctgtt	gtgctgccc	tcctttcggg	catgttctag	aacagagttc	agtccagagc	2400
ccaggggtgg	cgggatgat	ggatgagggg	gtggggcctg	ctgaccacca	ggggacctga	2460
tcatttgggt	gggccagcct	ctctgtcttc	attttccctt	ctgcaaagaa	gggggtgttg	2520
gcgtccctac	ttctcgcgcc	agccccgggg	cctctatcct	ggcgggaagg	gcaggccgac	2580
ccggcagact	gcggcctctc	gggaggggaa	aaggtgtcag	acgcgcggag	caaccataaa	2640
tagccccctt	ttcccagaag	acggcacggg	gttcaagact	caggcgccgc	atactcagaa	2700
tgagagcaga	gactcccggc	aggaaaaaaa	ggcacttagg	ggatctgtct	attagcatga	2760
aatgcaaatg	agcccccccg	gcctcattta	cacaactctg	tgcatggatt	cggcgaaagg	2820
gcaaccaggg	agacgacggc	gcagcagcda	ctctgccact	tcccccatcc	cctcccccca	2880
tcggccgggg	cgggaactga	gacgacccca	accctctgcg	gtggcgggag	gtgcgcgggg	2940
gctgcgtggg	tggtgagccc	ttaggagagt	gaacaacgcc	caggggtgat	ggcctcagca	3000
aagtgagggg	tggtgatgga	ggtcatccga	cccatccgcg	cgctctccg	cagtggcgca	3060
agcgcgccaa	aatctccgga	gagggaaatg	actgacccac	taggttccgc	cgtgtctacc	3120
tctcgcagat	gttggggaag	tgcttcccgg	cgtctaatac	tcgctgttcc	cccctccacc	3180
ggcgcccagc	acaccgcggg	cgctccgctc	ccgggtaccc	acagctttct	ggagtggcgc	3240
cggcggcagg	agagagctag	agccgactga	gccccagaac	tcggggagggt	aggcgggga	3300
agggccgggg	tctgcgcgtg	cgtgtgcacg	cgtggaaaagc	acaaaccac	gagggcccgc	3360
tgccggtagg	gttaagggtg	gtgagtgaag	gcggcagacc	cgcgaagttc	cagttccgcg	3420
gacactcctt	ccctaagcca	catagggact	taagagaaac	tgaggcacga	agttgggggg	3480
tggcggtggg	ggggactttg	aggtcagagt	cgataaagcc	cagctctgtg	cttccgcccc	3540
ctccacacac	ctcgagaccc	ccacaggttc	cttcttaggg	gtcctcgcct	tgctccgcag	3600
cccctcctgg	ggatccgggc	tctgcgggtc	agcgcgacct	gcctggggcc	acgtgttcaa	3660
gcacgaagcc	cctgcgtgga	gtccacgccc	ttcaaaaggt	ccctaggggc	aagggatga	3720
agccacaggag	cgtcaatgtg	aggtcaggtc	cagcgggtta	gggttacgag	gtcagggtcg	3780
aagtctcaga	attgactcgg	gagtatgacc	aataagccca	agagatttgt	ggaggccacg	3840
cccagaccat	gcctacccta	gcctttctcg	agctccgccc	gtttctccaa	gactggggcc	3900
ctccagcctg	aagccacc	cccaggacat	ccagctccgc	tccttccctt	cccagtcctc	3960
gcagccaagc	tcaactccag	ggtggggagt	taaccagggt	gagacctggg	atttcgctct	4020
gggacccccct	ggtgacaacc	ctcacccccg	tgccgcctgt	ctcctttctt	ccccaggccc	4080
gcccagagct	gagctccgtc	ctccggctgc	tgcccaaatc	aggggtgtg	gacaaaggat	4140
gcctggggcc	tgcgcccta	cgccaggacc	ccgcgccgaa	tactctgatt	cttcgggctc	4200
cctccaaggg	agtcccaaag	accccaatgg	ccaataggaa	agtgggttcg	gtctgggcag	4260
cagtctgatt	ggctccagcc	ttcgggagcg	gacccagggg	caaggggagg	ggagaggggc	4320
ggtcctgggt	tttgggggtg	gaatcggatt	ccagctgtgg	ttctctccct	gcgctcccgc	4380
ccgcaactgcc	acggcggaag	gccaatgggc	gcgcggctcg	gggccggcgg	cgtccggcga	4440
ttgggtgcgg	ggctgtctgg	gggcgggggc	gaggtctgaa	gttgaagtga	gggatccagc	4500
tggtgtgtgc	gcggggctcc	tcgcgcgcgc	tttcgctcgc	tgctccgcg	tctcggccgg	4560
aggaggaggc	tgtggcgccg	gcgacagcta	cggcagcggc	agccaccgcg	gcggctgcgg	4620
cggcggcata	tcgcctcca	ctccgcgcgc	ggactgcccc	ccactgtctc	cccgcctctc	4680
ccggacagtg	agcccgcggc	ggggcggggg	aaggagccgc	cccaccccc	tccaagccca	4740
cccctaaaga	gatccctcct	cccctcccc	gccgcctggc	gcggagccgg	gacgatgctg	4800

accccttaga	tccggtcca	gctgcgccgc	gggaagaggg	ggcgccctc	cccggacccc	4860
cgccctccgc	cgctgcccc	cttttcgttc	gccctctcgg	ggcggttcg	ccgaaggtag	4920
cgccgaatcc	ggcaaccgga	gcctgggcgc	gaagcagaga	agccggaaca	aagtgagggg	4980
gagccggccg	gctggccccg	gaagccccag	ggcgccaggg	gaagcgggac	tcgcgccggg	5040
cggggtttcc	ctgcgccccg	gcgccccgcg	ggcagcatgc	ccctgcgggc	agggggagct	5100
gggctgaact	ggccctcccg	ggggctcagc	ttgcgcctta	gagcccacca	gatgtgcccc	5160
cgccggggcc	cccgggttgc	gtgaggacac	ctcctctgag	ggcgcccgct	tgccctctc	5220
cggatcgccc	ggggccccgg	ctggccagag	gatggacgag	gaggaggatg	gagcggggcg	5280
cgaggagtgc	ggacagcccc	ggagcttcat	gcggctcaac	gacctgtcgg	ggcgccgggg	5340
cgcccggggc	cggggtcagc	agaaaaggac	ccgggcagcg	cggactccga	ggcggagggg	5400
ctgccgtacc	cggcgtggc	ccgggtggtt	ttcttctact	tgagccagga	cagccgcccg	5460
cggagctggt	gtctccgcac	ggtctgtaac	ccatatacct	cggggcacga	cggccaggcg	5520
cggggtcaga	agggggacgg	gccgcaccgc	cgggggtcgg	gggggaagaa	gaccacccg	5580
caggtgagtc	aaagttagcc	cggaggtagc	cgccgatggg	ggggggctgc	cagggagggg	5640
agggggcacc	agagtgggag	cggagacgcg	agcaggtctc	gtcggtaacc	cgggcttacc	5700
ccacctgcgt	acacacacct	cagtcttcct	gggttggggg	ggtggggatc	caggccagga	5760
gaagagagct	gtgccccgct	ggctgcagc	tggacgccct	ccagatgtgg	tcaggggagg	5820
gtcgtcatcc	tccagatgtg	ggaagc				5846

<210> 1930

<211> 5848

<212> DNA

<213> Homo sapiens

<400> 1930

gctttatatg	agcttttata	tttcacagaa	tggtgacttt	gcataatgcc	tgggtgcatg	60
tgggagctgc	tattgtcacg	actaagacat	ttcttttggg	gtatccatct	agccccagcc	120
tcgaaaggat	ggaagcaggg	cctccttgca	ggaggtcatg	ttgtccattt	gtctgttttc	180
atacaagctg	gtccaaagaa	agagttctct	ttcgtttgga	acatctgttg	ggttggaagt	240
ccttcccca	atctatctga	gtcttctctg	ctgcagagaa	agccttctctg	tgacctcatc	300
ctttccccta	aatgttgga	aatgctcctg	agtcctgtcc	ttgacacata	catcttccct	360
gggttgaggg	atggggactg	ggacacatgc	tttgggaagg	gcaggtgcag	agtgatgggg	420
ctgacggggg	gggggaagca	gggggaggag	ctgtccctct	gaggcctttg	ggatcggt	480
gtgccaggca	tcctcagccc	tccagctaag	caacacagag	agccaaaaga	ggctactaga	540
gacaagaagg	ccttcatggg	gccactgctt	gtgggggatg	tcagcagtgg	ggaggagtga	600
agcaggaagg	aaccgggaga	ctggatggaa	ttgtccctt	cacacggtca	cacatagcca	660
cacatggtca	ctgggaagag	agtcagctct	gtctgggcag	ccaggccctc	agtgaagcc	720
accagcccat	ctggaggggg	ttagtgctcc	ggccaacaag	gtcagctggc	cccttccctag	780
ctggagccta	ctcaaccttg	ccaggaaagtc	agagagctgg	acaagtggag	cccagcctgg	840
ggaggtggaa	gagaggagg	atggagcatg	gtgaagcaca	ggtggcctt	ttggcagccc	900
cagccctggc	tttggaacag	tctgggcagt	gtgccaaacc	ctcttgccac	tgtcgtccca	960
ttgacctca	tgaatgagtt	gcgaaggcag	ttaccttcag	cctcctatgg	ataaatattc	1020
gaggcccaga	gagggtaaaga	gacctgcctg	cgacccctca	gcacttctgt	ttctctctgg	1080
ggtcttgagg	gtacaataaa	gacccctaag	gcttccctct	ctcgcaggag	gtccaggcgc	1140
agctgtgggg	gagggtgccc	ttggtgtctt	ctgtccctgc	agccagtctg	ctttctactc	1200
ggcagctcct	ctctccctcc	tgggatgaga	tgtgcacgcg	atgatgggat	tctgtaaatg	1260
gggttgggaag	aaggagttac	ctccttaaaag	ggttagttct	ccaggagtgc	ctcgaatttc	1320
taaagggggc	agggtcccac	ataaatctca	ctcagaagca	ggattataag	agttcctgca	1380
gcatcccttc	ccctttgctg	gtccctcttg	agtgtgcacc	ctgttctacc	agcggaacac	1440
ctgcggggcca	gggtcactgg	agacagggcc	ataccgtctg	ggcagtcact	taagtaactt	1500
catcattctg	agcaccctcc	ttccttatct	gaaagggtgg	gggccatcca	cccagctctc	1560
agggctgtta	aggtgactaa	atgggataat	ggttgtatca	tccctgagca	aagggtatca	1620
cagatgggaa	gattatctta	gtcccgacag	gagccagatg	ggctgtgagg	gaggggtaaa	1680
ggcagggctg	gagggggctg	gaggggctgg	ctgagcagg	tatatatggg	gggggttctt	1740
cctcaaacc	agaaaaactc	ttagttaggc	ttagtgtctt	tgttgagaaa	ctgaggccca	1800
aagaaaggaa	tttcttgtcc	ctttgtttcc	ctttccctgc	ctgagggtcat	tcattcacct	1860
aacaactttg	tgcccgacac	tagacaaggc	cctagtgagc	aaaatgaaca	tagcccctct	1920

gggaacacag	agcctagata	gggagatgat	catttcatta	ctgcaaacac	aaacatataa	1980
tcccagcctg	ggctaagtgc	tgtgaagtgc	cagacttggtg	tctggctcgg	tgctgtatcc	2040
taagcacctt	ggcacttaag	tggcattgaa	atacttgctg	gaaagaaggc	cactctgagg	2100
aggtgatgtc	agagctgagg	cttggaggggc	tgaggttaaa	taaagatggt	ttcagggtctt	2160
ctttgccttc	cctgtaggtt	ctgcctctgc	ctcctctctg	gcactcaggc	taagggtaaag	2220
catctccgac	tggccatcag	ccccaacatg	ccgagtacag	ggatcagatc	ctgtcttgcg	2280
tggccggtct	cccctaggtc	ctgaacccag	ggaagtgcac	gtggatctca	atttatctag	2340
atggtgcgtt	tgtgcctgcc	ctcctttcgg	gcatgttcta	gaacagagtt	cagtccagag	2400
cccaggggtg	gccgggatga	tggatgaggg	tgtggggcct	gctgaccacc	aggggacctg	2460
atcattgggc	tgggccaagg	tctctgtcct	cattttcccc	tctgcaaaga	aggggtgttg	2520
ggcgtcccta	cttctcgcg	cagcccgagg	gcctctatcc	tggcgggagg	ggcaggccga	2580
cccggcagac	tgcggcctct	cgggagggaa	gaaggtgtca	gacgcgcgga	gcaaccataa	2640
atagccccc	tttccagaa	gacggcacgg	ggttcaagac	tcaggcgccg	catactaga	2700
atgagcagc	agactccgc	caggaaaaaa	aggcacttag	gggatctgct	cattagatg	2760
aaatgcaaat	gagcccgccc	ggcctcattt	acacaactct	gtgcatggat	tcggcgaaag	2820
ggcaaccagg	gagacgacgg	cgcagcagcc	actctgccac	ttcccccatc	ccctcccccc	2880
atcgcccggg	gcgggaactg	agacgacccc	aaccctctgc	ggtggcgggg	ggtgcgcggg	2940
ggctgcgtgg	gtggtgcagc	cttaggagag	tgaacaacgc	ccagggggtga	tggcctcagc	3000
aaagtgaggg	gtggtgatgg	aggtcatccg	acccatcccg	ccgcctctcc	gcagtggcgc	3060
aagcgcacca	aaatctccgg	agagggaact	gactgaccca	ctaggttccg	ccgtgtctac	3120
ctctcgcgaa	gtttggggaa	gtgcttcccg	gcgtctaata	ctcgctgttc	cccctccac	3180
cggcgccag	cacacccgcg	gcgctccgct	cccggttacc	cacagctttc	tggagtggcg	3240
ccggcgccag	gagagagcta	gagccgactg	agccccagaa	ctcggggagg	taggcggggc	3300
aagggccggg	gtctgcgcgt	gcgtgtgcac	gcgtggaaag	cacaaaccca	cgagggcccg	3360
ctgccggtag	ggttaagggtg	agttagtgaa	ggcggcagac	ccgcgaagtt	ccagttccgc	3420
ggacactctt	tccctaagcc	acatagggac	ttaagagaaa	ctgaggcacg	aagttggggg	3480
gtggcggtgg	tggggacttt	gaaggctcag	tcgataaagc	ccagctctgt	gcttccgccc	3540
cctcccacac	actcgagacc	cccacaggtt	ccttcttagg	ggtcctgct	ctgctccgca	3600
gcccctcctg	gggatccggg	ctctgcggtc	cagcgcgacc	tgcttggggc	cacgtgttca	3660
agcacgaagc	ccctgcgtgg	agtccacgcc	cttcaaaagg	tccctagggg	caaagggatg	3720
aagcccagga	gcgtcaatgt	gaggtcaggt	ccagcggtt	agggttacga	ggtcagggtc	3780
gaagtctcag	aattgactcg	ggagtatgac	caataagccc	aagagatttg	tggaggccac	3840
gcccagacca	tgcttaccct	agcctttctc	gagctccgcc	cgtttctcca	agactgggcc	3900
cctccagcct	gaagccccac	ccccaggaca	tcagctccg	ctccttccct	ccccagctcc	3960
cgcacccaag	ctcaactcca	gggtgggaga	ttaaccaggtg	ggagacctgg	gatttcgctc	4020
tgggaccccc	tggtgacaac	cctcaacccc	gtgcgcctg	tctcctttct	tccccaggcc	4080
cgcacagagc	tgagctccgt	cctccggctg	ctgccccaat	caggggtcgt	ggacaaagga	4140
tgcttggggc	ctgcggccct	acgccaggac	ccgcgcgcga	atactctgat	tcttcgggct	4200
ccctccaagg	gagtcctaaa	gacccccaat	gccaatagga	aagtgggttc	ggtctgggca	4260
gcagtctgat	tggctccagc	cttcgggagc	ggacccaggg	gcaaggggag	gggagagggg	4320
cggctcctgg	ttttgggggtg	ggaatcggat	tccagctgtg	gttctctccc	tgctctcccg	4380
cccgcactgc	cacggcgagc	ggccaatggg	cgcgggctc	ggggcgggcg	gcgtccggcg	4440
attggctgcg	gggctgtctg	ggggcggggc	cagggcttga	agttgaagtg	agggatccag	4500
ctgtggtgtg	cgcggggctc	ctgcgcgcgc	ctttcgctcg	ctcgctccgc	gtctcgcccg	4560
gaggaggagg	ctgtggcgcc	ggcgacagct	acggcagcgg	cagccaccgc	ggcggtgctg	4620
gcggcgccat	ctccgcctcc	actcccgcgc	gggactgccc	cccactgtct	ccccgcccct	4680
cccgacagct	gagcccgcg	cggggcgggg	gaaggagccg	ccccacccc	ctccaagccc	4740
accctaaag	agatccctcc	tcccctcccc	cgcgcgctgg	cgcggagccg	ggacgatgct	4800
gacccttag	atccggctcc	agctgcgcgc	cgggaagagg	gggcgcctcc	ccccggaccc	4860
ccgcctcccg	ccgtgcccc	ccttttcggt	cgccctctcg	gggcggcttc	gccgaaggta	4920
gcgccgaatc	cggcaaccgg	agcctggggc	cgaagcgaag	aagccggaac	aaagtgaggg	4980
ggagccggcc	ggctggcccc	ggaagcccca	ggggcgccag	ggaagcgggg	ctcgcgccgg	5040
gcgggggttc	cctgcgcccc	ggcgccccgc	gggcagcatg	cccctgcggg	cagggggagc	5100
tgggctgaac	tggccctccc	gggggctcag	cttgcgccct	agagcccacc	agatgtgccc	5160
ccgcgggggc	ccccgggttg	cgtgaggaca	cctcctctga	ggggcgccgc	ttgcccctct	5220
ccgcatcgcc	cggggccccc	gctggccaga	ggatggacga	ggaggaggat	ggagcgggcg	5280
ccgaggagtc	gggacagccc	cggagcttca	tgccggtcaa	cgacctgtcg	ggggccgggg	5340

gccgggccggg	gccgggggtca	gcagaaaagg	acccggggcag	cgcggaactcc	gagggcgagg	5400
ggctgccgta	cccggcgctg	gccccgggtg	ttttcttcta	cttgagccag	gacagcgcc	5460
cgcggaactg	gtgtctccgc	acgggtctgt	acccatatcc	ttcggggcac	gacggccagg	5520
cgcggggtca	gaagggggac	gggcccgcacc	gccgggggtc	gggggggaag	aagaccacc	5580
gccaggtgag	tcgaagtgag	cccggagggt	aggcggtg	ggggggggct	gccagggagg	5640
ggagggggca	ccagagtggg	agcggagacg	cgagcaggtc	tcgtcggtaa	cccgggctta	5700
ccccacctgc	gtacacacac	ctcagttctt	ctgggttg	ggggtgggga	tccagggcag	5760
gagaagagag	ctgtgccccg	ctggctcgca	gctggacgcc	ctccagatgt	ggtcagggga	5820
gggtcgtcat	cctccagatg	tgggaagc				5848

<210> 1931
 <211> 2932
 <212> DNA
 <213> Homo sapiens

<400> 1931						
ttcacatcag	ttactcattg	agctgggggt	cgatcatatta	accaagaatt	cattcatctt	60
tcttttgata	ttgtaatctt	gtccatcatc	ccacaactga	gttggggcct	gaggggttta	120
agagttcttc	ttccatcaca	ggaggcaagg	ggtacccttg	tgaaccagac	ttcaactcct	180
ggaagtcttg	ctcagttcat	aggcaaatat	ctttgcaagt	ttagtatgag	acagcccaac	240
ggttaaataa	ataagacaca	gtgccatggt	tctaggcatt	tggagaggga	aaaggcacat	300
tacacagatt	cccctggaga	aaatacaggc	cattctcatc	ttctcaaat	gcattttccc	360
actcttcagt	gactttta	cttatcccct	ggtctatgag	aaaccataac	ccacgtgcta	420
ctgaatacat	ttttattttc	ccttcatgac	atagacttgg	ttccaagtat	attttatttt	480
cctcccttat	gcctacaaga	catccaattt	tgttcaggtc	cctttta	gcacttaata	540
aatatacatt	ctgagacctg	gcagaacagg	ctgtcccctt	tcacactgcc	tttaaagcgc	600
ctgtttgaac	tagctagtgc	agagctcagg	tggggcacgt	cctagcttac	agctcatggc	660
catctctggc	accaggtcta	tctgtccaat	actttgtgtc	tagggtagag	gtccctaacc	720
ctggctgcac	attggaagca	cctgggaagc	tttctgaatt	ctgaggccc	gagccacacc	780
ctaaaccaat	ttcatcagaa	tctctgggtg	ggacggagcc	tggattctgc	cagttgaaac	840
ctgccatggt	aacttcagtg	agcagctaca	ctgagaactc	ctgagctaca	attctagcac	900
acagtaggcc	ttcggtaggt	atctgtggaa	cccacgagtg	ggtttcctat	ttcattatct	960
gttcccctat	gctctctatt	tttatcagaa	atctgagcag	gaaagagcag	agagaatgag	1020
tcaagagcat	cctctcaagt	gaattcgctg	ctgagaaagg	aaccgtaggg	cttgcatctt	1080
tcttgtgtca	tgcagttctt	atgctttaac	aggcccagag	gaggcaagtt	atagactgac	1140
acagacatgt	atatatttct	taaaagccct	tcaaaacca	gagctcactg	cttaggcact	1200
atggttataa	cacagacatg	ttcttggaag	catatctaaa	ctacctctg	tttgacacac	1260
attctaactt	gggttggtta	caaactttgt	cagttgttaa	gatcacactt	ggtcacattt	1320
tcccatttct	gtgaatcttg	caacttatct	ttgccagag	caacagccta	gacatgacca	1380
ccccaaagcag	ggactgcact	gcacccaaca	ttgccccagc	aggtcagtc	tccttgaaca	1440
ggaactgttt	ttgaggggct	ccaattttcca	ggttctagaa	tgggggtggc	cacttaccac	1500
gttaaagagg	ctggctacat	agaatgcagt	attgagaagc	cccccaaggt	agatcctggg	1560
ttacaggaaa	gaaagctata	ctgatgaaca	aggtttgctg	ccacaggcat	gggcgtgggg	1620
gagggcgagca	tgccgggggc	caccccgaga	tcactgctgt	cattttacatt	tgtatcacac	1680
ttcacagtgt	acagggagct	ctgcatgctt	agccccacgt	cattctcagc	acaaccctgt	1740
gagtgaggtc	tttctggatg	ggaacactga	agttgtgtcc	tacatctaag	gtcccacagc	1800
caattgcatc	acatccacgg	ctgcctccag	gacctcaggg	gccacctgaa	accactgggg	1860
gttccccctg	gctccccctt	taaccagaaa	caggaaagca	agccattccc	taacctcccc	1920
acccaccagg	ccttatcacc	gccttcccag	agtttccctc	atgatttgca	tacctcttgg	1980
ttccctagtc	ctgagaacac	agcagtagct	gttccactgc	tgccaacagc	ctcacacacc	2040
ccacctaaca	cagtatcaaa	atccccctct	ccctggaaca	gcctctgaat	ttgcctacac	2100
acattccaga	actatgactt	ggtcacaccc	actcccagga	ccagtcaaga	gtcttgggaa	2160
cctctctgct	acaccgataa	atccatggct	tccccacttg	agagggctcc	cagtggtca	2220
ctgcccaga	taaactcagc	ttccagcata	gagaaataaa	agctgactca	ttgggttatga	2280
tgtctcctga	taccatgtgt	aggaagtga	ctgtctgacc	aggcagttct	ggactcctcc	2340
agaacccgct	tcctgcaacc	acacagcacg	caggtaacat	tatcccgtgt	gacccacgcc	2400
cacaggcagg	cccggatgca	ggcacagcta	agactggcca	taacctatgg	agagtcctgg	2460

ccaatcagct	gtgacctgct	gtccaagtgc	attgtgaccc	caggtcggaa	tgagttcttt	2520
atgcagacat	aatgagcagt	cctggctgga	gcctcctgtg	ccccaccac	accaagcact	2580
ctgcgaggcc	cgcccatgtc	ttctggctgc	ctcctgagtg	tgcttcacccaccctggcct		2640
ggtcttccct	tccacctcca	cctttccttt	gcttcttttc	ccccagggt	cagagcctct	2700
aagcctcccc	catcatttgg	caatgtaggc	tccaaagagg	gtaccctaag	agggcagact	2760
ccagccccac	agaactgggc	tccgagcact	ggccaagaag	ccagaaggca	cataaccctt	2820
ctgtccattc	acttccacca	ggctccactc	agggttcccc	ttcttgctct	gggcctccag	2880
gatggtcaca	ggctggcctg	cctgcaggct	cacttcatgg	ctgcttctgg	cc	2932

<210> 1932

<211> 353

<212> DNA

<213> Homo sapiens

<400> 1932

agagaggctg	tttatcctgt	tcccatccac	ctggctctcg	tccccattg	tggatgctcg	60
tcacctccca	agtacatctt	ttgtactaaa	ggcaatgact	gcctctgcta	gtaccacagc	120
ccatactatg	tgactggcac	tgtcctagca	ctctactggg	tttgggttct	cacaataatt	180
ctatcattct	atttgctgca	tttttcagat	aagaaaaatg	aggatcagag	aagtcaaggga	240
acttactcaa	aattgcacag	cagtgaatct	aggcctgtct	gacctccaaa	cagatatttt	300
tgatccacta	ctgccacatc	actgagcaga	ctcagcacc	tctccctctc	cag	353

<210> 1933

<211> 10876

<212> DNA

<213> Homo sapiens

<400> 1933

ggagcctag	cagccgagag	ggtgcccga	cctgagctctg	agttgggccc	acttcaggag	60
ctgagaggag	caggtagggtg	aggagggagc	gtgggctgcg	gggatgggtg	tcctgggggc	120
ctgagatatg	agtaggggtc	ctgggagggg	gctcgggggt	ccttgagagac	attttagcac	180
tagtggggaa	tggaatggcg	tgtatgggga	ggctcctttt	gtaccctgat	cccaggaagt	240
gaattcaggt	gtgggtggga	ggctccggag	ggtgctgggtg	gtgggggatg	ggactccttg	300
agaccctccc	tgtcccagga	acgggattca	ggacttgga	aaaggatttc	ctgagccagt	360
ttgagctcta	atggggacct	tgaatggggg	tttctgagat	acctccttcc	caaggagtaa	420
gcgcgggagg	gagctggggt	ttcttcagag	acgctgtacct	tacaagacag	gggctccagg	480
ctcgggtggg	gattgcagag	acacccccac	cccaggaaac	tccgtaggcc	acgggagggg	540
gtctttgatg	aaggtctcag	aaatagctct	tcctccggag	gggaaatgag	ggctcggggc	600
aggttcctga	gacacccac	acccacacac	taggaagtct	ctcaagtctg	gcagtgtctc	660
caaattgact	tctgccagaa	gatgagtgtt	taagacttgc	taggggccct	ggaaaagacc	720
tctaggccct	agaattgggg	tcaaattggga	gtccctgggt	catttctgtc	cctgggaagg	780
ggctcgggtc	gggcacttgt	ctttggcttc	tagtgaggat	attcagagtc	gtggcagaga	840
gcagtttgca	gcgtctgggg	caggggtctc	cgaactgtgc	cccaaccctc	agctcactca	900
acaggttgca	ttagctctgg	tctcgggctt	ggggggccag	gcgggaagga	ggggggtgag	960
ggcatttaga	ggggtggggc	agccaggccg	acacgtgtcc	ctgcaaggag	tgagccgcct	1020
ggccacgcgg	tgagggtgga	gggaaggaga	gggggtggcg	cgggggaccg	gggaatgaaa	1080
gacacagatg	gcaagagaga	cagcgtgagt	ctgggggtctg	ggaggagagg	ctatcccttc	1140
tccacgtggt	cggctcatct	gcgtcggggt	cgggtctctc	ctgtagcttt	ctgtctctct	1200
cttccccact	atttctctct	cactggctct	ctctgtgtct	ctctgagtaa	ctaactgttg	1260
gcttctctcc	ttctctgatt	tttgttcttc	tctctctctc	atctctttct	ctgtcagctc	1320
gcctccattt	ctatccctgt	ctgttcctgc	tccctgcct	tgtctctttc	tccgtctttc	1380
catcgggtctc	tatgggactc	ccctccccc	ttcttcagct	ccctcactt	tgaagcatgc	1440
tcgttccatc	ctgatcccc	ccacccatt	tctttgccca	caggatggaa	ctgcaggatc	1500
caaagatgaa	tggagccctc	ccttcggatg	ctgtgggggtg	agtcaggggt	ccaaggaggt	1560
gggctcaggg	atcaggggtt	aggatttccc	tcttatcggc	ccctatttcc	ctgccctatc	1620
cagctacagg	caagaacgtg	agggcttct	gccagtcgt	ggtcctgctc	ctgggagcaa	1680
gccggtccag	ttcatggatg	tgagtggccc	cacaggatct	gtcctggtgg	caccttcccc	1740

agctaattctc	ctccccgaact	gtccctctctt	ccccactcct	cctcctccct	gctgttcccc	1800
tgcccagcta	tctccccagc	acagctacac	actacttggg	cgctcccctc	tccagatact	1860
cctcttcccc	agatatgccc	tttccagctc	tctccctggc	cttgtttctc	ccaccgct	1920
cttcggccca	gtgactgccc	tccctggctg	ctccccctcc	ggcctgcctt	tctcctccag	1980
ctgtttcttc	tctccagca	ctccccatcc	tcagcctatc	cccaccgca	gcgtctcccc	2040
tccccagctg	ttttacctct	ggtggctgct	tcaccctccc	ccggtcctct	ccacttccag	2100
ctgctccctc	caaagtttgt	cctagtttcc	cccttcccag	ctctccccat	tcgcagcctc	2160
ttccatcttc	aactcttctt	ccctgctagc	ctcttccctc	ctccgatggg	ctctccttgg	2220
cttctctcca	ccccgcttgc	ttcttctcta	gtctttccct	ggccttgcca	ttagtctcct	2280
taccctgtgc	cctgtcccaa	tgtgtgcccg	ggctttgctc	cttgctgga	ggtcagggg	2340
aagacatcgt	ttggaatgtc	agtgttcaac	ctcagcaacg	ccatcatggg	cagcggcatc	2400
ctggggctgg	cctatgccat	ggcccacacg	ggggctcatc	tcttctctgt	agtcctatag	2460
tggcctgcgg	ggccaggggt	gttgtggggg	aggtgggagg	cctggggcca	ggtctgagct	2520
gtgccacctg	cgcaggggcc	ctgctgctgt	gcattgcgct	tctgtcgtcc	tactccatcc	2580
acctcctgct	gacctgtgct	ggtattgcag	gtgagaccca	gagcctggat	cccagtcccc	2640
actccacccc	tttggaacccc	agactctgga	gccacatcca	gagctcaaca	cagaccttgg	2700
accccagacc	ccagaccag	ctccctgaat	gcagacccca	gatccggac	ccagaccccc	2760
agaacccacc	cccagaccac	tacactctac	ctctaacccc	cacccctcag	tccccgggtc	2820
cccagctcct	accatgggtc	cagttcatag	tctggctcca	agacccttac	tcttacctcc	2880
agccctcatc	cttttccctg	gcctcagatc	ccacctccca	gactctgccc	ccaaactcaa	2940
gcccactcgc	ttaaccccca	ccttcatcct	ccatcagtca	aagccggttc	ccccaaagccc	3000
caactcccca	gctcctgggc	cctctggcct	gcacctctgg	cctggcctcc	tggaccttca	3060
acctgtttcc	tgactccccc	cgctaggcat	ccgagcctat	gagcagctgg	gacagagggc	3120
attcggggcct	gcggggaagg	tagtggtggc	cacagtcac	tgtctgcaca	atgttggggg	3180
tgaggactct	gggaggtggg	ggtcagcttg	gggggagagg	gcggagtggg	gtgggcttcc	3240
ccaggctggg	ctggggaaga	cggggtgggg	gcataagagg	aatccttctg	cttacacctc	3300
ccccacctgc	accagccatg	tccagttacc	tgttcatcat	caaactctgag	ctccccctgg	3360
ttatcggcac	cttctgttac	atggaccccg	aggggtgagt	gagcaacacc	ccttggtctg	3420
ccagcagccc	cttgactctg	cctgtgaggc	ccggtcagta	tcttcagcgc	tgtgtgtgca	3480
gctgacttcc	agatgttcta	gtttgagact	gctgggcagg	ccacttgggt	cagactgatt	3540
cctctgtgtg	cctgttgctc	tgaccacagg	agccagctcg	accgtgtgct	gattttgtga	3600
cttattcttg	ctgcttctgg	ctggaggctg	actctttatg	tccggtttac	tctgctgctg	3660
accatgtgtg	tgtgaatgta	catagccaat	ggactcagac	tctgcctgtg	ggtttgactc	3720
tgcgtctgct	gtcctggctg	attctcttgg	gctagctctg	tgattgacta	cagctgtgtc	3780
ccgtatactg	ggattccaac	catatgtgtc	ttaccctcgg	tcactctgac	ttccccgtgc	3840
cagctgattg	tttgagcttg	attctagggt	catctggctg	aatctgtcta	gctgtgagtg	3900
tgtgatcact	gactccgtct	agctgtgagt	gtgtgatcgc	tgactccagc	agtgtgtctg	3960
tgtgcacgta	gtatgctgtg	gtaccaacta	tgtgtgactc	actctgactg	tacgtgtcca	4020
gccaactcca	tctctgtgtt	tgatttggtg	gctgttcttg	caaattctct	ctgggtgtgtg	4080
tgtgtgtgtg	tgtgtgtgtg	atccctgaat	gtggctatgt	gtcctctgta	ttatggttgc	4140
aaccatata	gctggactgt	tctgattatg	catctggctg	actgtgtgtg	agtccggac	4200
cgctgtgctg	gcttggtatg	tgtggggggc	atgtgcacga	tgggactcca	gcagggctag	4260
tgtgtatgca	cagtgtgttg	cagtgtgtgt	gtccagctg	cacgtgtgta	gctgcctctg	4320
tgtgtttcat	gaacagctct	gtgtgtccag	tggctaactc	tgctctgggt	cccatgggct	4380
aactctgcct	ctgggtcccat	gggctttgca	tgggtgttag	atgtgtctct	ggttttgtca	4440
gtctgactct	ggtctgtgtg	acagtttttt	tttttttttg	acagagtctc	attctgtcgc	4500
ccaggctgga	gtgcagtgc	acgatctcag	ctcactgtaa	cctctgcctc	ccaggttcaa	4560
gcgattctcc	ttcctcagcc	tcttgagtag	gtgggattac	aggcatgcac	cacatgctc	4620
ggttaatttt	ttaattttat	ttttttgaga	cagagtctta	ctctgttgcc	caggctggag	4680
tgacgtggcg	ccatcttggc	tcactgcaac	ctccacctcc	caggttcaag	ccatccttct	4740
gcctcagccc	ccatgctcgg	ctaatttttg	tatttttagt	agagacgggg	ttttgccatg	4800
ttggccaggc	tggctttgaa	ctcctgacct	cagggtgatct	gcttgccctg	gcctcccaaa	4860
gtgctgggat	tataggcatg	agccaccaca	cccgccaggt	ctgacaattt	taactgagtg	4920
cttgatcttt	actctctgtg	tgtatccttt	tagatttttg	gtttgattct	gagaacacta	4980
gatagctgat	agtgtgacca	gagatgtctc	attattatag	ttagctcca	ttggtttatt	5040
tctgtgtaac	tgtatatgag	atagaaagag	accatgtgaa	tgtctagaac	ataggcattc	5100
aatcaagttg	ttttgaaatgc	atgagcagtt	gttcagctga	ttctgtctta	actgactgtc	5160

ttgcttggtc	accttcctcc	aatatctgta	cagatcccac	cttttctcag	agcttggttc	5220
caacagtgtg	gccagctgga	tgatttcggt	tctatttcag	tctttctttg	gctgtgcagc	5280
caaatacagtc	cacaggcata	ctttcaggca	tccaacaaac	cttgagctgt	tcaaacaagc	5340
atgcatgtgt	gtttctgact	ttttgatgga	ctctgcatcg	tggcttgtct	actggatcat	5400
cagactgttg	ctctacctgt	cagacatacc	acgatcgtga	tcactctctt	ttgtgtctgg	5460
caccttggtg	tgactgatt	ttctccttcc	tttctttctc	tttctttctt	tctttctttc	5520
tttctttctt	tctttctttc	tttctttctt	tctttctctc	tctttctttc	ttcctttctc	5580
tttctttcct	cccttccttc	ttttttttct	ttctttcttc	cttttttttt	ttttttttga	5640
gtgtcttgat	ctgtcaccca	ggctggagtg	caatggcgcg	atcttggttc	actgcaacct	5700
ctgcctcctg	ggttcaagtg	attctcctgc	ctcagcctcg	cgagtagctg	ggattacagg	5760
cacgcgccac	catacctggc	tatttatcta	tttatttatt	tttttgagac	agagtctccc	5820
tttgtcgccc	aggctggagt	gcagtggcgt	gatctggct	cactgcaagc	tccacctccc	5880
gggtctatgc	cattctcctg	ccttagcctc	ctgagtagct	gggactacag	gcactcccca	5940
ccacgcctgg	ctaatttggt	ttgtattttt	agtagagaca	gggtttcacc	atgttggtcca	6000
ggctgggtctc	aaactcctga	ccttaggtga	tccaccgcc	tcagcctccc	aaagtgtgg	6060
gattacaggc	gtgagccacc	acacctggcc	tggactgatt	tttacattga	gtctgactga	6120
tttggggtgt	ttgaccttct	ggttgtgcaa	ccacttgcca	agtctgatgg	caagttttgt	6180
ccagctgtgt	atgtgttagc	tgtgtcccac	tgatagtatc	tgacaatctc	ataatcagct	6240
tgactgtttt	tgtcaaccct	attgtgccgt	ttgtcactgt	gaccacctga	atgacttctc	6300
aaagttaggt	tgtcagctta	actctcctga	cttagggcag	aaagtgcct	gtccagctgc	6360
cttctgtgag	tgtctgcctg	acagtttctc	ttggctggca	gctaggcact	gtgtcttctc	6420
gtctctctag	ggactggttc	ttgaaggga	acctctcat	catcatcgtc	agtgtgttaa	6480
tcacctgcc	cctcgccctc	atgaaacact	tgggtaagag	gctccctggg	ttggccattg	6540
ggtagtgagg	ttagacagaa	gaagccagac	tgagaaaacc	ccattcatt	ttcaagggtc	6600
gcagcacact	aggagagagc	ttatttgatg	tgggcttgaa	cagattagta	ggagtttgct	6660
atggagggga	ggtttttctg	ggtggagta	gaagcttatg	caaaggtaac	tggggtgggt	6720
agacctgaa	ggctagacta	ggtgtttgga	gttactgtt	ccgggggtcc	attgattttt	6780
tgttttgttt	tgtttttttg	agaccgagtc	tcactctgtc	acccaggctg	gagtggtgca	6840
atggcggtgt	cttggtcac	tgcaacctct	gcctcccggt	tcaagcgatt	ctcctgctc	6900
agcctccga	gtagctggga	ttacaggtgt	atgcgccacc	acaccagct	aatttttgta	6960
tttttagtag	agatggggct	ttgccatgtt	ggccaggctg	gtctcgaact	cctgacctca	7020
ggtgatccac	ccgcttaggc	ctcccaaagc	gctaggatta	taggtgtgag	ccaccacgcc	7080
tggctgattt	ctgagactct	gtgttttgcc	cctcttaggc	tacctggggg	acaccagtgg	7140
tctctctctg	acctgcctgc	tgtttttctc	tgtttcggtg	agtcacagag	aagcggggag	7200
agagtttggg	acattgggac	atagcttctc	ccatgacctg	gcttccctgc	tgccccatc	7260
ctcaggctcat	ctacaagaag	ttccaacttg	gctgtgctat	aggccacaat	gaaacagcaa	7320
tggagagtga	agctctcgtg	ggactcccca	gccaaggact	caacagcagc	tgtgaggccc	7380
agatgttcac	agttgactca	caggtgtgtg	tgcaggcatg	taggagattg	catcacactc	7440
aggccctctg	gttctgtcat	atggtgcctc	ctgctcagag	tggagctgga	tattggacat	7500
tgggagcttc	tatgtgtctg	atatggaggg	cgattacggg	gcgggagggg	gatgggaaga	7560
aggggatgga	cccctgttgg	ctctaattcc	atgtactcgg	gcattcccct	agatgtccta	7620
cacagtgcct	attatggctt	ttgcttttgt	ctgccacct	gaggtgctgc	ccatctatac	7680
ggagctctgc	cgggtgagtgg	gcaggcaagt	gggcctgaat	gatggccag	caagtggggg	7740
ggtaaccaga	atgtctgaca	ctccctacag	cagtcctggg	actgtcactt	ggtggaagct	7800
aggttgtgtc	atgggagggg	tttgggggtg	ccaggaggtc	ttggggcact	cagggtagtg	7860
actgtttgct	gattggggct	taagtattct	cctattttta	tatccagcac	aaatgtggat	7920
ggacagagtt	gggaagcaga	gatcagatga	tcagatggag	ggggtgatat	gcatggctgg	7980
tgatatgggg	ataggagagt	acggacagac	agaggcgag	gcagggatga	tatgatggga	8040
gatgtgtgga	tgatcagaca	gagggacagc	atggatgttc	agatggaaga	ggcagtggca	8100
gtcaaacgca	ggggagaggg	agacagtcac	atcgggggag	atatggatgg	tcagagaggg	8160
gattttggct	agtcacaggg	gaggcagaga	cgggtgtccc	catgtgtgcc	agctgaatgg	8220
cagtctggga	gaaggggact	ctggaggggtg	gaggctggct	ttgagggacc	tggggcaagt	8280
ctcagggtct	gggcatgaca	gttccacgac	ctctacacct	caggccctcc	aagcgcagga	8340
tgcaggccgt	ggccaacgtg	tccattgggg	ccatgttctg	catgtatggg	ctcacagcaa	8400
cctttggata	cctcaccttc	tacagtgagt	tgccgtgggg	ctaggggctg	ggggaggggg	8460
aaggcctggg	gcaggagcct	ctgagctctt	tcttctgtg	accacggacc	tgtcagtttc	8520
caaacagaag	gtgtgcctca	cttgtgtgga	tttgtcact	gtgcatgtat	gtatgggttt	8580

ctggggcatt	ggctcctggtg	ctctctccac	atcctgcac	ccgtaccctc	tgtctcatgg	8640
cccaggcagt	gtgaaggcgg	agatgctgca	catgtacagc	cagaaggacc	cgctcatcct	8700
ctgtgtgccc	ctggccgtgc	tgtctcgcggt	gaccctcact	gtgccagtcg	tgtctgtccc	8706
tgtgctggg	gcccacggct	gagagggaca	tggatggatg	ggtagagggc	ataggcatgg	8820
atgtgtgggt	caaggctgga	aacaggagtg	gatggatgga	tgaaggaggc	aaggatggac	8880
agacaggaaa	gggcagtgtt	ttcagatgga	cagagatggc	aaaaatcgat	aaacagaagt	8940
ggggaggaca	tagatagcag	gagagagagg	gtcagggggac	agggtagtca	gttggaggga	9000
ggaggcacag	atggatggct	agaaagaaga	gggaggcagg	aagggtcagt	tggagggttag	9060
aattaagaaa	cagggatgga	cagaaaaagg	gtggaggctg	aagtgatggg	atgtaggagg	9120
gtcaagtctc	ccagatgggg	aggcagaact	aattagacag	aggaggaggg	tagagggtcag	9180
atggagagag	gcaggggagct	cacacagggt	ggaaggatcg	gtggatggtc	agacagaagg	9240
agaaggcaaa	gatggtcagc	tagaggagga	ggcaaggatt	tcagacagtg	ggtgcagggtg	9300
ccgatgggtg	ttcagacaga	aggaagagac	gtggattgtc	agaggatgga	ggcagggaagc	9360
ctgttcagaa	catagagaca	cagatgttgg	gttaggcagg	gtggagccat	agatagtcat	9420
aggggaggga	aatcagggat	ctcagccaga	gggtggagct	aaagacagat	gatcacgtgg	9480
aaggggggca	gcacttgggt	cctgacttct	gtcccaccct	actctggcca	cagatccgcc	9540
gggccctgca	gcagctgctt	ttcccaggca	aggccttcag	ctggccacga	catggggcca	9600
tagctctgat	cctgcttgtt	ttggtcaatg	tccttgtcat	ctgtgtgcca	accatccggg	9660
atatcttttg	agttatcggg	cagtaaacct	cacccacgtc	ccatacccca	tctaataatgg	9720
gccttgtccc	caagtcatgg	tgactcctgt	cccttcttct	tgttctccag	ggtccacctc	9780
agccccagc	ctcatcttca	tcctccccag	catcttctac	ctccgcattg	tacctcttga	9840
ggtggagcct	ttcttatcct	ggccaagat	ccaggtaagc	attccagggc	agagctaggg	9900
agagagggag	cactccaagg	agggagtgt	cactccagga	tggctggagg	tgaaggggac	9960
atgcatagga	gggggctggg	agagcatctg	aaagaatggt	ctggaagah	gaagggtgatt	10020
gtctaggaag	gggcagagga	gacagagcac	cagcagggtc	caggaaagaca	gggagcactc	10080
aaacagaggc	tggcatagag	ggagcattct	ccagacagat	ggaaagagca	ctattgggaa	10140
gagagctgga	agcactttga	agaaggagga	tggaggaaag	tattctgtca	tgggtcctgg	10200
gaagggtgaa	ggactcgcag	aaaggggctg	gctgtaagga	aggagagggc	atacagagga	10260
gggtcaggaa	tggatggagc	actctctgaa	ggagggtgaa	gacttgagga	acattctcag	10320
aaggcaactg	ggtgaggagt	cccaaccagc	cccattctgt	ctctctggcc	cacaggccct	10380
gtgcttttga	gtcctgggag	tcctcttcat	ggcctgcatg	ctggcttta	tgtttgcca	10440
ctggggccaca	ggccagagcc	gcattgtctg	acactgatca	ggcctgctg	gcccagggtcc	10500
ctgtgcgcat	gcacatggag	gggtcagggc	cgctccctag	ggtccctcct	gccaacatg	10560
tggagggtgc	tggttcccat	gaacgtgggt	gtcagaggcg	ggggacagca	gaggctgcag	10620
actggcccac	ttccctcctc	cccagggatg	ccaagcttgg	atcatggccc	taatcccaac	10680
cccaacccca	tgggaggagg	aggaggagga	agaaggagg	gaggaggagg	aggaggagga	10740
ggaggaggag	gaggccagggt	cctgggtggag	cctttgcccc	gcccagtcct	ctctgcctcc	10800
tcctggctga	agctgtttgt	caggattacc	ctcgggcha	agaggaaaaa	taaagatgtt	10860
gagctaccac	tctgga					10876

<210> 1934

<211> 742

<212> DNA

<213> Homo sapiens

<400> 1934

tggctactac	ccctgcacct	gttcccctgc	tgtcccaggg	cctctctgcc	tgaatctgcc	60
tctctctgcc	tcttttctcc	tgtccctcca	ggagtctctc	tgcctcaacc	actctctctg	120
cccttctatc	tctctgagct	ggtgtgtctg	gtcctaccct	ctgtttgggg	agctgtctgg	180
ctctgtcccc	cacctcttgg	ccagcctgtg	tctcctgtct	atgactgagc	ccaattgcct	240
gttgcccttc	tgcagggtgtt	tccacgagcc	tatcccaacc	cacctgtttg	tttctgagtc	300
tgcctgtgtg	tccctttctc	cctgtctctg	cctgtcttcc	aagctccctc	agcatccctc	360
cctcccggcc	atctgtcttt	ctgtcccttc	tgtgtctctg	ctgttctctg	gctgtttctc	420
atgcctgctt	tctttgtaac	ttcagttctc	ctactctctc	tctgtctcct	ctctgcacct	480
ttttctgcca	tccatcccat	cctgctgtcc	gtctgtctctg	tgagtccatc	ccctctgtct	540
gcctgtcact	ctctctagct	gtgggtctac	acctcaatc	tttcaggcca	tttcccccac	600
catcaacaca	caaacaaacc	gctgtctccc	tccaagtggg	tccagatagg	gggcgcccct	660

tctccacctc	ttcccccgcc	cagggccaga	aggagggaaa	cgaaattaaa	attaacattt	720
cttctcagga	aaaaaaaaaa	ag				742

<210> 1935
 <211> 1340
 <212> DNA
 <213> Homo sapiens

<400> 1935						
acagcagaga	tctgtggagt	aggattgtgg	gctggcagtg	ggtttatccc	acagacctaa	60
gacagctact	taatttgtat	agacccttcc	cagcctgggc	ctctggggtt	tccttctggg	120
tggagatcat	cttctgtagg	aaatggaact	gcttcaagcc	aagaagcttt	tacttttact	180
aggtcttttt	gtgtcctgct	gttcaaatat	taggaagact	gaaccctgtt	tcggtcttga	240
cagtattacg	tttcgtgata	ccaaaaaaa	gtgtttgtgt	aacctcaagt	catgctgaaa	300
gtgaaataca	gcttaaagtg	ggattctgct	ggacctgact	caacttttca	cctcacccgt	360
tggctccgtg	caggcagtat	ttgagtatgt	ggttccccct	caagtctgta	ggagttgtat	420
tgtcaataaa	gtccaaggcc	agagtgcctt	ctttctagta	agtagagaga	atTTTTgaa	480
ttcaacgaca	aacattttatt	aagcccttat	tgtgtacagg	gctcaaagct	aagtgccttg	540
ggtgattcag	ggtgattagg	gataggattc	catcttcaag	aagcctccca	tctaggaaga	600
aaggtcgata	agcatagttt	tggacacacg	ggagagcatg	gctttctctg	ggcccagtaa	660
ttacttttgt	atccagatca	ttagagaacg	gaatgccttc	tattgaacta	tgtaacagtc	720
acagggtttag	atcttctcaa	gttattattg	cctttaatct	tcatatgatt	cctatcctgc	780
agttaggaaa	tggaaaccct	aggatatagt	gactgtgagc	tcagaaaatt	aggttgggag	840
ataagccagt	agattgaggt	ggtagattct	tcaagatctt	gaagggggga	agtgggggg	900
gggggacggg	ggagctgttc	ccagctatat	ttgcccttgg	cagatgggat	ggattctggg	960
agaaagctct	aagaaattag	gcctgtacga	cttattttca	tgaatctagc	tgctaagctg	1020
gaataagtga	agttaaaagt	agtgatgggc	caggcacggg	ggctcacacc	tgtaatccca	1080
gttcttttgg	aggtcgaggc	aggcggatca	tgaggtcagg	agttccagac	cagcctgggc	1140
agcatggtga	aaacccgtct	ctactaaaaa	tataaaaatt	agccaggcat	agtggcacgt	1200
gcctgtaatc	ccagctactc	aggaggctga	ggcgggagaa	tcccttgaac	ctgggtggca	1260
gggggtgcag	tgagctgaga	tcgtgccact	gcactccagc	ctgggtgaa	gaatgagact	1320
ccgtcttaaa	aaaaaaaaaa					1340

<210> 1936
 <211> 147
 <212> DNA
 <213> Homo sapiens

<400> 1936						
acgcctgtaa	gccagctac	tcaggaggct	gaggcaggag	aatcgcttga	acccgggag	60
cggaggttgc	agtgaactga	gatcgtgcc	ctgcactcca	gcctgggtga	cagagtgaga	120
ctccatctca	aaaaataaaa	ataaaaa				147

<210> 1937
 <211> 590
 <212> DNA
 <213> Homo sapiens

<400> 1937						
ctattttcaa	ggagttcact	tacactcagg	gaccctagga	acatttaaaggata	atTTTTa	60
ttgtcataat	ctgcccttaa	caaaattaac	aaaatgacct	tcaaaatttg	ctgattcagc	120
cattcctagc	aatgaaagga	ggaacctggc	tacctaccag	acttcttatt	tctggtgtac	180
ttggttcttg	gtgacctcta	ggcaggcagc	acccagcag	ggctggactg	tgtgtgctcc	240
ctggaaggct	gacatttccg	gagtgtgaat	gctggcagta	agacatcgga	agcatcttcc	300
tctttgagtg	tgccaactct	tggccaaaga	tagctctaga	aattgtaaga	actttgagag	360
cagattctgt	ttgtcctata	gaaaactccc	atcagcatat	tgccctctaca	tccagctaga	420
atgtgtcaga	tttcacatgt	tcattcatag	tctcaaccac	tctttttcc	cccctctctt	480

tttatctttt	tccagttttt	tgtttgtttt	atctcttcat	cacggtgaat	ggggttctta	540
cagcttagag	ttgtcttggt	tgtgtgtact	catgctcttg	aaggaagggg		590

<210> 1938

<211> 16772

<212> DNA

<213> Homo sapiens

<400> 1938

cggtgccgtg	gcccaggggc	cgggccgagg	tcccgggggc	ggtgccttgc	gggcccgctc	60
cggggcggtg	cctggtgggc	tggccccgcg	gctctcccc	tctctgcggg	cccagtcgcc	120
ctttggccgg	gcgagcta	cgtcggctca	atgacgacga	ggccccgacc	ttcccgtcca	180
ggacctacag	agacaaccga	aggagagccc	aaggcggtct	ctttgctgtc	gocgccccca	240
ctgaagcaag	agctccccgg	ctccactgaa	acaccagctc	atttaagctt	tccccaacgc	300
ccggccctcc	gggacgatac	ctaacaacga	ccggcgcccg	catctggaat	aggctggcga	360
gatacttagt	atccgagggc	tcgggacttg	gcgccatcga	ggtcatgggg	acccaggatc	420
cagggaacat	gggaaccggc	gtcccagcct	cggagcagat	aagctgtgcc	aaagaggatc	480
cacaagttta	ttgccctgaa	gagactggcg	gcaccaagga	tgtgcaggtt	acagactgta	540
agagtgccga	agacagccga	cccccaaaag	agacggactg	ctgcaatccg	gaggactctg	600
ggcagctgat	ggtttcctat	gagggtaaaag	ctatgggcta	ccagggtgct	ccctttggct	660
ggcgcatctg	tctggctcat	gagtttacag	agaagaggaa	accctttcaa	gctaacaacg	720
tctccctaag	caacatgata	aagcatatag	gcatgggctt	gagggtgagta	gacccatttg	780
cctagaatgc	ctttggcttc	actttgttcc	agctcaaaac	ttctagcaga	ggtgggaaag	840
ggcaagaaag	cagttgggct	tcttgctctg	gtgaagcggg	ccctatccct	ggcatatttt	900
aggcctgtgg	ttttggaccg	tgagaccagg	tcacatctct	ttgcaacacc	cttccctccc	960
agtgttttgt	cttttcagaa	ggaaagggtg	ggaacatttg	gtcatgcaat	cagcctttcc	1020
cattcagggt	cttctcacat	actggtttcc	aatgacttcc	ctttgggatt	agctatactt	1080
tgtggcaagg	taggaaagga	taatctggct	gctgtgatac	taacacaatg	ttgtttttatt	1140
tgggggtggg	ggggtctcaa	ccccttattt	cccacaagca	gctggggcat	tctctgtacc	1200
tcattagaca	cactgttaga	gtcccaacac	tactgcttct	ttcttcaagc	tttagctcca	1260
gggagtaggt	aagaagagcc	tccctgcccc	cacctctgaa	gtgatgagaa	ggtgctgtca	1320
ttctgttctg	ggatagagag	ctcttgatat	taagtcat	atcagagagg	cactgccata	1380
gatgtagaac	ccatctagat	ccccactgag	ttcaaaagact	agtgatgagg	agccagaccc	1440
attaacagga	acaggtggat	gtgaggacag	aaagcatcac	cctgagggtca	tcctgactca	1500
gtctacacaa	tacacacaga	actgtggagg	gaggcataaa	gcttgggaaa	ccctgccctt	1560
acagtttcta	gagtaggaga	cccttcattt	ccccagtcag	tgctgtgggg	ctgtgatggg	1620
gagatcagtt	atctaaccct	agccctgggg	agtgggaagg	gcctgatgct	gcctgacat	1680
ctggctttgt	tgggtgcctgt	gggtagcctg	tagcagagaa	gaatcatccc	tccaggctgc	1740
ttctggaatc	aattcagtc	aagtttgacc	ccaaaagttt	ttgcatcaaa	ataggatcta	1800
gtgtacatag	agaagtacac	tgagttgcat	gtggtaggaa	caatgagatc	aagaaaagat	1860
gggcatccta	gcctcttagc	ccttaaatat	gaactgagtc	atagaggcct	gaagctgtgc	1920
tcaaccccc	ggaccctggc	tccccattcc	aggatagagt	gggggggtact	gatacaaggc	1980
ttttggaata	ggatgagttc	ctatgaggag	aaagcacagg	tgagacaaga	attctaagtg	2040
ataactcttg	agttgaggtt	gaaattgtgg	agaaggccaa	ataggtcagga	atggccagc	2100
taccatatta	agggagtaag	agagctccta	agatggagct	gaactgtggg	cactctgacc	2160
aggagctcta	gcaagacaga	attctctggg	tcttaccttc	gtaagaactc	aatttcaatt	2220
gttctccctt	ccagccagag	tccactcatt	caataaatat	ttattgagtg	cttggtccat	2280
gccagatagt	cctttgttct	gtctgtcttc	atagattgca	gttactctcc	ctgggtgcc	2340
taatcctcgg	ccacaccctc	cctctaccag	tcctttctgg	tctctagttt	caaagtccgg	2400
ttttctctaa	gctggcagag	aggattctct	gccttcctgt	catcccatcc	tttgtcttcc	2460
ctcttctttc	cacccctaga	atgtgctgtc	cctttttatt	ttatatttat	tttttttttg	2520
agacagtctt	gctcttgtca	cccaggctgg	agtacaatgg	tgcaatctca	gctcagtgca	2580
acctccgtct	cctgggttca	agcgattctc	ctgcctcagc	ctcctgagta	gctgggattg	2640
cagggtcctg	ccaccacagc	tggctaattgt	ttttgtattt	ttagtagaga	cggggtttca	2700
ccacattggc	caggctggtc	ttgaactcct	gacctcacgt	gatccgccc	cctcggcctc	2760
tcaaagtgtc	gggattacag	gtgtgagcca	ccgtgcctgg	ccgtgtccc	tattcattaa	2820
tcacatttct	tctcctctgc	tccagtctgt	tatctctctt	gtgccccatc	atttgtatgt	2880

tcattcatct	gtaaaattgg	caaatatgca	ttgactgc	accatatgtc	ctaccctgtg	2940
cttggacctg	agggtaatat	tcagctagtc	tttgtcattg	tccctttccc	caaggaactt	3000
aaaagtatgt	cagcctcaca	tgaggaacat	tgaaataaca	aggcaatgtc	tgattaggaa	3060
ttgagataac	agtttgtata	tatgagtaat	aatcatacct	gtactttatg	gctttcttat	3120
ctattatgtc	atttgatctt	tcaaccattt	cattagatag	ctagagcagg	tggtatcccc	3180
attttgtaga	tgaggaaact	gggacttagg	ggttacttac	ccaattattt	ggtagaagt	3240
ggtgtgactg	aacagtaggc	ataatgtggc	agtaggcagg	agagtggaaa	tgggaaagag	3300
tctggcaggg	caggggctac	ttagttagga	ccatctgga	atgagaattt	gtaggaaata	3360
agattagaag	ataggctggg	acagatgtca	gagccttgaa	aacagaatcg	tttgcctatt	3420
gaaaacagcc	tcaatcattt	gcctcttgga	tatagggctg	taccaagccc	aggaaaatgt	3480
tgggattttt	tgaaggcttt	accaagagca	aaatcagaaa	gcttcacagt	ttaaatgttg	3540
aatttaaaaa	aaaaaaaaaa	aaaggcttga	gaggaaatgt	ccagaaataa	atataaacac	3600
tgattgtcta	tgggtgagat	tatttttttc	cccctttcac	ctttcataat	tagaaaagaa	3660
aatgatcatt	ttaaaaagaa	gaaaggccag	aagcggtagc	tcacgcctct	aatcccagca	3720
ctttgggagg	ccgaggcggg	cggatcaact	gaggtcagga	gttcaagacc	agcctggcta	3780
acatggtgaa	accccatctc	tactaaaaac	acaaaaaaat	gtgccaggca	tggtggcggg	3840
cacctgtaat	cccagctact	tgggaggctg	aggcagaaga	atttcttgaa	cttgggaggc	3900
ggagtttgca	gtgagccaag	accgagccac	tgcactccag	cctggacaac	aaggaacgaa	3960
actctgtctc	aaaaaaaaaa	taataaataa	taaaaataaa	gataagaaa	ttattcccag	4020
cagcctatgc	ctgttttgga	ggtaggggag	tggggcgga	ggctgtaggc	caggaaacca	4080
taaatggtcc	tttcagcacg	tcagacagaa	gctcctgatg	ttggaaataa	agcagtgggtg	4140
gtggtgctag	agaggttaagg	agagatcaga	aagccccttc	tgaggagaa	aaaggagaga	4200
aacaaagcca	ctccttcact	tcagctgggg	tgactgggaa	gatgaaggga	ccttgaactg	4260
tatagaaatc	aagagggaaga	aaggtttgaa	agcagatgtc	cttgggacat	ttaatgggag	4320
gtcacagaga	gaggcaggtg	actcagcctg	tgaacagctg	cccacctgcc	ccttccact	4380
cacattgcct	cttgcctcct	aggtacctgc	agtgggtgga	ccggaagacc	catgtggaaa	4440
agaagacacc	tttcacgcac	atgatcaatt	ctgtaccctc	aagacagatt	tatgggtgagc	4500
cccaccccat	ctctgctctg	ctcagagaag	gcctagcctc	caggtctacc	acagttagga	4560
agagacttcc	agcttatgca	aattgcaactg	ttccatcccc	taggttttca	gaggaaccag	4620
gcttttatagt	ctagaaaagt	agaaatgggc	ttattttcct	ctcccaatac	cccactaacc	4680
accctgattt	ctctaggttg	tcccttgggt	ggcatcgggg	gaggcactat	taccctgtgc	4740
tggagaggcc	agttctgtcg	ttggcagctt	aaccctggaa	tgtatcaga	ccggacagtc	4800
atcgctgacc	aagtaagagc	caggagggtg	agaggccagg	acaatacctc	cccaggccaa	4860
gaaggaagga	cctcttggtc	agtgtagaag	gtagcagtta	gatgtgaata	agattcaatc	4920
taataagtac	tctcgggatg	cttcctgtgt	gccagccct	gagctaggat	ataccgtagg	4980
aataagacac	acacaagcac	acattccttg	aaagagtaaa	cagatctggc	atttctctag	5040
taaattgcctc	ctgtctacct	cactgcccc	acccaactag	ctgaggcagc	ccccaaccac	5100
agagaatgca	gagaattccc	aaatcactta	acctgcctga	aagaacattt	ttaggagactg	5160
gaagggaaaa	gaaaacccaa	agtctataaa	ctcatgggaa	aaaagacac	gtagtacaag	5220
gttcctcacc	ctgattgagg	aaccttcacc	aaagttcagc	tcctctgctg	atcactcccc	5280
tggaggtctc	ctggcttagg	gtctaaaaag	ctccttctct	cccaggctta	gatctctagc	5340
cttcttccct	cttctgaagc	ttcacttttt	tccttttgct	cctgcatcac	atctgggcct	5400
taaattgcc	gaagtatgtg	tcctgcctct	catcatctct	ctctagttag	ccgccctttt	5460
agagttgcct	aggaagtcc	tctttcttgg	ctccagcatt	cagcctcatc	ttcaaaggaa	5520
aaatgactag	caaactttta	gtccaattaa	tgacaatacc	cttctgtggt	cacgtttacc	5580
agccctgccc	atgtcccaa	atccctctct	gctcatcc	ttaggtatcc	tgaggggaat	5640
ggcttcaga	attgtgactc	tacaattaaa	gtaattattg	catgcttaac	atgtgctaga	5700
cactgtgcta	ggctctttgt	atactgttta	atattaaaaa	caatcctaca	agggaaagta	5760
cactattatg	ctcattttgc	agatgaggac	actaagatcc	agagaggttt	agtaacatgc	5820
gcaaggctac	aaggttggtg	aatggaaaag	ttgggattca	gaaccatttc	tttctggggt	5880
gaagagcttg	tggctctaac	cattatgtac	cattccaaca	aaatgaaaaa	ttattttata	5940
cagttgtccc	tcagtatcca	tgggggggtg	ggcccaggac	ctgctatccg	aggatgctca	6000
agcttttgat	ttgaaatggc	ttatagtatt	tgaaaataac	cattgcacat	cctcctatat	6060
actttaaatc	atctgtagat	tacttataat	acctaataca	ttgttacata	aaccttggtt	6120
gtgccgtaca	gtaaataaag	tgtgtacata	ttcggtagag	acacaacttt	ttttccacat	6180
attttagatt	tgggtgggtg	aatccactga	tgtggaactc	acagatatgg	agagcccact	6240
gtatacaata	aaaatatttg	acatagtttg	aaccagggaa	agggatatta	atccctcata	6300

gctcctaccc	tccaagagct	aaaacttttt	ttgagaaaat	aagacttagg	ggaaatggag	6360
actgtgagac	cacatcagtg	ctaaaaggag	aggggtggat	agtatactgt	ggaaaaaggg	6420
acggtgctgc	agatttcgct	cattcctcc	acatacatgc	caactctgaa	gaagggtgca	6480
tcagtgaatt	aaaaaatgtc	cctaccctca	gaagaatcca	tacagcagtc	agggacacag	6540
aatggtcagt	caatacatta	taacataata	caccaaatgc	tagaatagaa	ggggaggggg	6600
gcacacataa	tgactcactg	ctggaagaag	tagaggagga	agagatggct	tttgactag	6660
gctttgaagg	atgagaggtt	tcaccagata	gcgaacaagc	atgagcacag	gcatggagga	6720
gagaatgtag	tgtgctcaag	gaacagttag	tgtttttata	tgaacagact	ataggtgctt	6780
gaacaggtga	tgagtctgat	gggcagggag	aggccagctc	aagaagggcc	ttgaaagcca	6840
ggcaagagtt	gagactttag	cctgagggcc	atggggagtc	actgaaacat	cctaaccaag	6900
gactgacata	tcttgatttg	cctgtgagaa	agatcactct	gctaccaga	tgaaaagggc	6960
cacagaaaaa	gcaggagatt	gggcttaagt	gaggtgctaa	caccaccgta	gtggagaagg	7020
gagagaaaag	ttgggagata	gatggatggg	gaggtagcag	gacttggtga	tcactgagc	7080
ctgggggatg	acttgaagct	gatggtgacg	tggtaacagt	tgcaggctct	gaaaggggag	7140
gagctgattt	gaggagaggg	aagacttagt	ctgtggtccc	tgtggtttac	cccgttccag	7200
cctatctgcc	ctcttaagtt	cacagtgtgc	ctgcgtcggg	aagggcagac	tgtgtaccag	7260
caagtcctgt	ccctggagcg	cccaagtgtc	ctccgcagct	ggaactgggg	cctgtgtggg	7320
tacttttgctt	tctaccatgc	cctctatccc	cgagcctgga	ctgtctatca	gcttcctggc	7380
cagaatgtca	ccctcacctg	ccgtcagatc	acacccatct	tgccccatga	ctaccaggtg	7440
aggcccccac	atctgtatct	tccattgccc	tcccttcccc	aggactgcc	tctgtctaga	7500
actgctatgc	ctgcgagcg	cggtagctca	cgccctgtaat	cccaacactt	tgggagggcca	7560
aggcaggcgg	atcatgagat	caggagatcg	agaccatcct	ggctaacacg	tgaaacccca	7620
tatctactaa	aaatacaaaa	aaaaaaatta	gctgggcggt	gtggcaggca	cctgtagtcc	7680
cagctactcg	ggaggctgag	gcaggataat	ggtgtgaacc	cgggagggcg	agcttgacgt	7740
gagccgagat	tgcgccaccg	caccccccaa	aaaaaaaaaa	aaagaaactg	catggcctgt	7800
gaaagggagg	ttggagccat	gaacatcaca	ctggcttccc	agaaccaccg	cccaactggt	7860
tctggtcttc	tatatccctt	gctaggcagc	ttgcctggga	atgcaagtgg		7920
acaaaagaag	agtacactgg	ggagtatttg	agtcaggctc	tctgtgtgcc	caggactgat	7980
cctagcagag	tggggtcagg	aggcgctcta	ctgggaccgt	ctgagtctaa	tcttctgccc	8040
ccaggacagc	agcctgcctg	taggagtctt	tgtgtgggat	gtggaaaatg	aaggggacga	8100
agctctagat	gtgtccatca	tgttctccat	gcggaatgga	ctgggtgggtg	gagacgatgc	8160
cccagggggt	tgtggaatga	gcccttctgt	ctggagcgta	gcggggaaac	tgtccggggg	8220
ctgctcctgc	atcatccaac	ccttccaaac	ccctacacga	tggctgtggc	tgacagatc	8280
acggtaaagga	aagagcctgc	cctatacctt	agccctgaa	ccccacctcc	accccagcat	8340
ggctctctca	tccaccctca	tcatactcct	gtaagccctt	gggcctggga	ggttaagagt	8400
aagtaagagg	agctggggag	ctagccggga	cccagtgtac	tcgtggagcc	tgccctcaca	8460
gtccctgacc	ccttcacagg	cagctaccac	ggtaaccac	atcacagcct	ttgaccctga	8520
cagcacgggg	cagcaggtgt	ggcaggatct	acttcaggat	ggacagctgg	actctcccac	8580
tgggtgatggg	gggtctgact	gggagatggg	gggaagagag	gttgtccctg	tcttgggacc	8640
aggggtggga	ggcctggtaa	taagtaggcc	ttgtttccat	gttagggatc	cctatccctg	8700
gggctgaagg	ggctcctgtc	ctgaattctc	ttgtgtttct	ctcaggccaa	agcaccctca	8760
cgcagaaaag	agtaggcatt	gctggagctg	tgtgtgtttc	cagcaagttg	cgacctcgag	8820
gccagtgccg	cctggagttt	tcactggcct	gggactatgc	caggatcatg	tttggagcta	8880
aaggccaagt	ccactacagg	tgaggggacc	aagaaagtgt	aaggatccag	agtgtctggg	8940
ctctgacctg	gggcttgtgt	tcataccttc	ccttcccacc	ccaggcggtg	tacaaggttc	9000
tttggccagg	atggagatgc	agcacctgcc	ctcagccact	atgcactgtg	ccgatacgca	9060
gagtgggaag	agaggatctc	agcttggcag	agcccgggat	tggatgacag	gtgccagtgg	9120
ggcccatctc	ttgcctttct	cctgggcact	cactccaaat	gggactcctc	gatttactct	9180
ccaccaccca	aagtcagtag	acttgcactg	ggattcattt	gatgatccca	ctctgctgaa	9240
ccccaaaatc	ctttccatct	tgggaggtac	atgttccctta	aaccatttcc	tcctcctcgc	9300
ttcccagatc	actgcctgcc	tggtaaaaat	ctgcgctgtt	caatgaacta	tactctctgg	9360
ctgatggagg	cacagtgtgg	ctggaagtgc	ttgaggactc	cctaccagag	gagctgggca	9420
gaaacatgtg	tcacctccgc	cccaccctac	gggactacgg	tcgatttggc	taccttgagg	9480
gtacaggatg	ctgggtgggct	gggatatggc	aggccatccc	caagtcagga	tgatggattt	9540
gcctacccca	gggtattgtg	taggatgagg	gggtgttggg	tgtggactag	taacaatgcc	9600
ccacctctaa	atctagagga	caagctacag	aggggtttga	aggggaagca	ggaattctgg	9660
caacagtgtg	tctcattcat	tcctccaggc	caggagtacc	gcatgtacaa	cacatatgat	9720

gtccactttt	atgcttcctt	tgccctcctc	atgctctggc	ccaaacttgagctcagccta	9780
cagtatgaca	tgggtgagga	tcccttttgt	gccgcttctg	ccctcttggc tccccatacc	9840
cccgaacttc	tgtggtccct	cagattgtct	cttctttccc	ttcccttcat acgtatctgc	9900
atgctgctta	ctgggtcccc	actgcagtca	cacacatagc	tgtgtgcccc tctcaggca	9960
tgccatttcc	ctgctccct	tctgtgtctc	tccccagct	ctggccactc tcagggagga	10020
cctgacacgg	cgacggtacc	tgatgagtgg	ggtgatggca	cctgtgaaaa ggaggaacgt	10080
catcccccat	gatattgggg	accaggttaa	aagtccaccc	caaggtcagc ttccctccct	10140
caacttttgc	accctctacc	ctatccacca	atgcaagtga	cccagtcctc ctcctctccc	10200
acagatgatg	aaccatggct	ccgctcaat	gcataattta	tccatgatac tgctgattgg	10260
aaggacctga	acctgaagtt	tgtgctgcag	gtttatcggg	actattacct cacgggtgat	10320
caaaacttcc	tgaaggacat	gtggcctgtg	tgtctagtaa	gggatgcaca tgcagtggcc	10380
agtgtgccag	gggtatgggt	ggtgtctggg	aagagcctag	ctgggtgttg cctttcctcg	10440
gtacctaggt	cttcaacatc	ttggtccctc	tctaggctgt	gatggaatct gaaatgaagt	10500
ttgacaagga	ccatgatgga	ctcattgaaa	atggaggcta	tgcagaccag acctatgatg	10560
gatgggtgac	cacaggcccc	aggtttagcg	gtaggggtt	ccaggaggcc tgaggtgaga	10620
aactgggcaa	caagggattg	tagggctcaa	gaaagaatga	ctcattgtct attacacggc	10680
atgggagcag	ctggagctgc	cagtctgacc	cccaaaccce	tgccctgat cagtgccttac	10740
tgtggagggg	tgtggctggc	agctgtggct	gtgatggctc	agatggctgc tctgtgtggg	10800
gcacaggaca	tccaggataa	gttttcttct	atcctcagcc	ggggccaaga agcctatgag	10860
agactgtgtg	ggaatggtga	gttcggggag	cctaagtagt	cttaaggcag ctgagaggac	10920
accagggcc	ttatttttct	cttctctgac	tccaggccgc	tattacaact atgacagcag	10980
ctctcgccct	cagtctcgta	gtgttatgtc	tgacagtg	gctggacagt ggttcctgaa	11040
ggcctgtggc	ctaggagaag	gagacactga	ggtgagagag	gaggaggagc agccagagag	11100
aaaaatgggt	tttccctgga	ggtgggaagt	aagtatatga	gaccatgttc ctgcccttgc	11160
ccctccaggt	gtttcctacc	caacatgtgg	tccgtgctct	ccaaactatc tttgagctga	11200
acgtccaggc	ctttgcagga	ggggccatgg	gggctgtgaa	tgggatgcag ccccatgggt	11280
tccctgataa	atccagtgtg	cagtctgatg	aagtctgggt	gggtgtggtc tacgggctgg	11340
cagctaccat	gatccaagag	gtaatgcact	ccttttccca	tctctccacc atctgtatcc	11400
tgcccagaaa	aacttctcca	accaccaat	ttcttcaagg	cataacccea tgccatcttg	11460
tccgtctata	aagcctccca	tttttccctg	gtatgcattc	cagctcctgc cttcaggctt	11520
ctgtctgtgg	gtcatagtta	tctcctccac	ttgctgggag	ctccttgaag gcaaagactc	11580
tactgcctcc	atctatccag	tggaaagtgg	tcttcagagg	gtgccaagtt agtatgta	11640
actgtcatct	ctcccaacag	ggcctgactt	gggagggctt	ccagacagct gaaggctgct	11700
accgtaccgt	gtgggagcgc	ctgggtctgg	ccttccagac	cccagaggca tactgcccgc	11760
agcgagtgtt	ccgctcactg	gcctacatgt	ggccactgag	catatggggc atgcagctag	11820
ccctgcaaca	gcagcagcac	aaaaggcct	cctggccaaa	agtcaaacag ggcacaggac	11880
taaggacagg	gcctatgttt	ggaccaaaag	aagccatggc	aaacctgagc ccagagtga	11940
ccgtctgaac	tgtgggaggg	aagtgtctaa	agcccagcct	ccagcctggc ctttctcct	12000
tcccctctga	acctcctgca	accctgagcc	atcaggacaa	tcataccctc tcttctct	12060
ccacccaatt	gtgccagtaa	atgggggttg	agggtgacct	aggcagcatt agaatacatt	12120
atttatttct	ttcctcacct	gttccctgac	tgcgtgaaat	gttcaggag gtcagttgat	12180
ttccccaggt	acattcatgg	tgtgacagac	acatgggtac	aaataaaaaga cccagaaaagc	12240
cattaagtgt	ggtgtgtttg	agccctcagt	cgctcctgaca	gggcacagga gctgcggcca	12300
gcccttgccc	accgcttttt	atttggacac	agatggggag	ccccccaggc tctgtctgag	12360
cccccccaca	tatcctcata	tctagcctga	gtatctgtcc	tgcaaaatga cagaggggct	12420
accagtagga	agccatcctc	ccttcttctg	gagatttgcc	tgcaagggga ggatgggacc	12480
tggcagaga	ggctctgaga	agaggtcagg	gaatggccac	tccaggggag gctctgcact	12540
gggagcctga	ggcatgtaat	gcagcaggca	ggaagtgttg	ccaggggcct ggagtaacaca	12600
gtctgagccg	tccaaccact	ggtgtgtgct	gtctttcggc	acttctgact gcagggcagg	12660
cagctccagc	tgtaaggggt	cctcactggg	gagggcacga	agctggcggg acaacactga	12720
ggagacaaa	aatcttcaga	ggccaaccce	gacctctccc	cttgccctgt ctgagagcta	12780
tccttaagcc	tcttacctcc	atgctcagct	ggcaggctcc	cccttgtgtc agaggagtac	12840
atagcaggta	caaggaggag	gcagaaggag	actagtagga	ctagagcac aggaaaaagg	12900
agatgaagaa	gggctctgga	ttgccctgtc	cccaccaact	gagaaaagga tttctcccct	12960
catcaccatc	ctcaccaaga	tgcaggtgct	gctgtgctgt	gttttgtttg atatctcaat	13020
caccatggcc	tggagtttcc	tcagttgatc	tagaagggac	ctagaggaag agaggggcca	13080
atagtgaaca	tcccctggcc	tagcatcctg	agacacagtg	aaactcctgt tcaggccacc	13140

tcttccatct	ctgcaactgga	tctctctctct	tacttttcat	tctatttttg	caaacgactt	13200
cttcctctct	ggacaaaatg	cctgaagtgc	ctcattaaaa	caacaacaac	aacaaaaagc	13260
aaaaacaaaa	caaaacaaaa	aaactctgcc	aggactaac	ctcctttgcg	aatatcatca	13320
gtcgttcccc	actgtctgat	cagctatgca	cataatcctc	accaggcatt	ttctatgttc	13380
tctaccttct	gtcccagctc	atgtgtgta	agagttccag	ccaagatga	ctatgctgga	13440
ctagtctctc	tgccctaggat	gctttctctc	tgccctagaat	gctttcccaa	ccaaccccca	13500
gaatcctaac	tactatgaaa	gcccatacag	tctttcttac	cccctttctt	tttcttggtg	13560
cttaacttat	tcttagttac	ttgtaaatgt	attcctcact	actgggagct	tcttggaatc	13620
agagacctag	tgaaggcagc	tgcccagtta	gaaatcaagt	gtagggcagg	ggaaagagtg	13680
agaaagcatt	aaatgagggg	cataggaagg	aatgggtttg	gagggatact	tacaaattct	13740
gttcctccag	aagctgtact	ttgttctgaa	gtcccatatt	ctgggctgtg	tatttcaaga	13800
ccctggggga	ataaacaaga	atacggggat	atggcctgta	tcttcccttc	aaaaacctaa	13860
tacttaacaac	agagctccct	tccctttcat	acctgtctct	taaaccccca	acatacacct	3920
tctttttcct	gcggctctct	tgagcagatc	ttttatttgc	aatcttccct	cgcacacgtt	13980
tcagaatttg	ttcctctgtc	tgaaaggaaa	cagggaaaagg	gatataatta	gaggaactct	14040
agaaaaagga	gttgaaacgc	aactgagatc	aatctctttc	caatacagaa	atcccttcta	14100
cagcttccct	gaccaacagg	cattcagatt	ctttctgaat	gcctccacgg	accagggtgt	14160
aaccctaaca	agccagacca	ttttaaacta	ttaaaaaaa	aactggctcg	gcagtattca	14220
ggcgacgtgg	ctcatgcctg	taatcccaac	actttgggga	gctaagacag	gaggaccggt	14280
tgagcccagg	agtttgagac	cagcctgagc	aacatagtga	gaccttgtct	ctactaaa	14340
taaaaaatta	tcggggtgtg	gtggcacatg	cctgtggtcc	ctgctactca	ggagactgag	14400
gaaggaggat	cacttgagcc	tgagaggttg	aagctgtagt	gagccatgat	ctcgccacta	14460
ttctccaacc	tgggcaataa	agcaagaacc	tgtcttcaaa	caagcaaata	aaaacttctt	14520
tatcctgaac	caacagctgc	ctccttataa	tttctatccg	ttggacttac	ctagtatctc	14580
tggggccaaa	tagaataaac	cctgttttagc	tattttaagg	cacttaacat	ttcctcagag	14640
cttaagaaaa	aaaaaaaaaga	caaaattttt	aactcatctt	ctcaggatag	actgcatcct	14700
cttagtatct	gtcaaagatg	tgctctagcc	agtatcaagg	aaagcaagag	gtgacttgt	14760
agagacaatta	actctattgc	tacagtttcc	aaatcccatg	aactttctta	gtagccacat	14820
cacactgctg	actcatcttg	tactttgaag	aaattaaaa	tcttcacttt	gggaggccaa	14880
ggtgggtaga	tcaattgagc	ccaggagttc	gagaccagcc	tggaacaag	gcaaaacccc	14940
atttctacta	aaaataccaa	aaaaaaaaatt	gccgggcagg	gtagtgtgca	cctgtagtct	15000
cagctactcg	ggaggctgag	gtgggagaat	cacctaagcc	cagaaagtca	aggctgcagt	15060
gagccatgat	cacatcagtg	cactccagcc	tgggcaacag	agcaagacct	tgtcaaaaaa	15120
tatatatata	ttcctgtaac	ctttctatta	atgagcactg	atttcacat	agtaccccag	15180
tactctgctt	gtgaagtggc	cactcattgc	ttaaaaactg	aaactaagga	ttttacattt	15240
attcatgtac	tgcttagtcc	aacctgtgtg	aactctctaa	acagttctac	cattcagcaa	15300
gaggtggatt	actatgaagc	caacgaagtg	tcaaggccct	tcaattacac	agtcctttcc	15360
aaggcccaat	actaatgttg	cactgataat	tttgagttat	ttttttaaca	gaacacccaa	15420
atttgtataa	gcccacaaaa	aacgaggatc	tgcccttgca	tctggcatat	tgtgtacctg	15480
cctcaacttc	ctattagcaa	taaattctact	aagttttctc	cctcaatcct	tttttaaagt	15540
tattgatata	aagttaacag	aatttgccta	cttgggactt	ttaatccctt	ttcagccttt	15600
gttcaaccaa	tgagagtctt	accttagtga	gaggaagtgt	ctcaggcaga	ataagcccct	15660
ccttctccaa	tagactcttc	tcctcatctg	tcagtactag	cctagcaatc	tcctagggta	15720
acaagaaagt	ggacggcagt	tgcatgggga	tgctagagag	gaatggggaa	tcctgcccc	15780
acctggggaa	tgtgagagta	atctcctgaa	aatcaagtca	agtacctgct	ctgccagctc	15840
ctccatgatc	tgtggagtca	tctgggtccc	ctcttttcta	cagctctcac	tctctgcaaa	15900
agggaaaagta	tgaatagcca	ggcccatgaa	ccctgtcctc	cccgcaact	tatttcagac	15960
tcacctagat	ccatagagac	agtttccctg	gggaaggagt	aggtgtggtc	atgggtgaca	16020
aggcaggggt	tggaggagct	gagaatgttc	aacgacgctg	ggggactcag	cagggagcac	16080
agcaaatcat	ctaactccca	gtcgctcggt	acctgcgcag	ggttccaatg	aacaggcctt	16140
gaccttatca	ccatcacctg	acttcatgga	catcccacgc	tttccccagt	cagaacccca	16200
acctacctca	gaaagcggca	gcgcccagtc	cagtggggcc	ctcacggcct	catcggtgtc	16260
cgtccccaaa	tctccacttt	cctctagcag	gaaggccagc	aggtcttggt	caccagcatc	16320
caattccagc	tccatttggg	acaactacgg	aaagggtggg	ccaccggggc	ccaacgtccg	16380
aagcccagac	acgagcccca	ggccagctgt	aggcctcggg	cacctatcca	ctgtccctct	16440
acggccggga	tgcccgccg	gcggctttcc	atagccctct	cgggaccgc	ctcccaggct	16500
caatttctct	cagcctccaa	cgcagcga	gtgacgcacc	ccaccccggtg	gcactgtggg	16560

acttggagtt	ccctccaact	gagaagaggg	ttgggtgcag	cgccacgtcc	caggggctat	16620
gcaaattgtag	gggacggccc	tgctgcccgc	tgcacccccg	agggcggggg	ttccggggct	16680
ccggctccgc	cttctacccc	aagctagaaa	aaggaagagt	tctagcctga	aagggaactc	16740
gggcgtcgtc	ctggcgtcct	ctccggattg	cg			16772

<210> 1939

<211> 3118

<212> DNA

<213> Homo sapiens

<400> 1939

gaagggaggg	cgaggccgga	gccccgaggg	gacccgagaa	gcggcggggc	ggcggggccgg	60
cgggcggggc	gcagagccag	gcagcgcagg	taggccagac	cgggcggggc	gggggcctta	120
gggtggggcc	gcggggcctg	gccccggggc	gggcggggcc	tgcctctctt	gcgtgtcgg	180
ttcgggtcct	attagttgga	gaggtcagcg	tccagcgcac	ctcggcttga	gctcggcgtg	240
aagtaggccg	tcttggggaa	gacaggcctt	tcctggggagc	agtcctatgt	ctgggatagg	300
ctttggggag	cgtgaggagt	cgggtggcag	cggggcgagc	ggcggggacg	ggctttggtg	360
ttagctgata	gcgggcatgt	ggtaggaaa	gctttgggtg	agttggggat	taggtggggg	420
ccgttttagga	atcaagggtc	gctataggag	ttaaaagctg	gggttaaaac	ttaagagtta	480
gtgtgagtcg	ggccgttttt	agataggtaa	ggtttagatt	acggtcatta	tctgttttgc	540
tgggatggcc	atcacacgtc	ataatttgag	ttcagggtca	ggtaagggt	cacaaacaa	600
caggaatcag	gttagagctt	gtttgaggga	ttaaagaatg	ttggcatggt	cgtgtttaag	660
gataaacagt	gaaagcgtga	gttaggaatc	aaattataaa	tgaactttag	gcttaggggt	720
caacatttag	ggttaacatc	aggggatttt	gtgctaaagg	caaaacttag	atcagtttca	780
gggatcaggg	attggatatg	agtctgtgct	aggaaaggga	tgaatgtcca	agccgggtact	840
gggaatcagg	aaacaaatta	gaggtggggg	taatgttagg	aatttggggc	agctttaggg	900
gttgtgtgtt	gaggctagca	tagttgacct	tgagcagata	aaatttaaga	ggttggcagt	960
aggtaaatgc	ccttcttttg	tagggaaatc	ctttattcct	atgtagtac	aggggcttct	1020
ttttaccag	agagataaac	taatttcagg	ctagcgttct	ggcttttagct	agaattgcag	1080
gcatctggga	ttccagcttc	tttattccat	tctctaagcc	caaggccctt	gctgtggcca	1140
ccacagttag	gggacagaga	ttctggactg	tggtgtttac	agacaacata	ggtgggaaat	1200
agggacccag	gatgtacaag	gcctagtcac	aagttgggga	ctgcctaggg	aagaaggagc	1260
tgatgactat	gggggaagct	aaccaaggaa	tcactgttgc	catgggagaa	gggaataact	1320
gaatcccctg	aaagttagc	cctgcttctc	ccacttcact	tggtctcttg	gtattaagcc	1380
ctcctctcca	actctcatcc	ctgactctgc	atttcacacc	atcctgcct	atccccctac	1440
aaaatacttc	ccttgccttt	aactctccca	tgctcatctt	atcatccgtt	cccatcctta	1500
gttctacctc	cctcaccaac	ctttaatccg	cacatccctac	ctgaattttac	cctcatcaaa	1560
acctgagctt	tcccatcatt	ttaaattact	ctcctaccat	tttcacccag	tcatgtacct	1620
acattccacc	tggtcatctg	ctgaataccc	tactcccacc	ccctgctgtg	tgtaaccccc	1680
tggatctaag	cctcttttaa	ttctctggac	catttgtaga	tccccttccc	ccactcccca	1740
acagaaaaga	ggaaacgaga	cccaaagagg	aaactgggtc	ttgctgatcc	cacgcccagc	1800
caggccactg	accacacccc	cacttcactc	ccagcctgac	cctgccactg	accacagcac	1860
tatcctctac	tcagcctgac	ccagccactg	gctgtacccc	atcccccatc	ccagctccag	1920
ctttacttag	acattgccaa	tgtccccttc	ctttcccacc	cccaccccag	tctgatttag	1980
tgactgacca	caggcccagc	tcttctcaac	ctcctatagc	ctgacctggc	ctctgacctc	2040
accccatcat	tcctgactt	agccaccatc	catgtaatca	ttccccttcc	cccaacctga	2100
tgcatgact	ggtcatatat	gtatcttatg	tatatgtatt	tttccaaaca	ccatcatcac	2160
cagcattctt	tttctacacc	ctgtcttctc	atcctttttc	tacaccctgt	cttccccatt	2220
ccagcctga	tgcatgact	aacccaaccc	catctgcccc	tagtggctac	taatcatata	2280
ctcataccct	ttttcccacc	agcctaacca	catcccgtaa	ccacagcctc	atcctcacat	2340
tctctgcccc	acctgatcct	ttcccctctt	cccaattcgt	cgcctaaact	caagctgccc	2400
cagccgctaa	agtggctgct	gatgatagga	agctgtggga	ctctaacctg	tctaccttag	2460
tagttattag	gtcctgtcat	ttctacctcc	ccaaacttgt	tctgagtgac	atcttctca	2520
atgccatttc	aactccggct	tcattacctt	taattttgtac	taatacagtg	tccttctaac	2580
taatctccaa	ggtaactgcc	agagttatct	ttctaaaatc	cagttccggg	tatgtctctt	2640
ctctgtctaa	agactccctt	ggcttctttt	tgctctccaa	taagtaaaat	tcctcatacc	2700
cctctccagt	cttctctctg	ctttccatcc	taaccctgac	ttcccaccca	ctgctccctt	2760

gcaggtagccc	ctgtgcttca	acagcctgcc	tgtcacttcc	cctgaatgct	cctccacgat	2820
ttactgcttc	tccatctttg	cttatgctat	ttctctgcct	ggagtgaaaa	ctacactga	2880
cacatctcca	gctggctggc	gtagtggaga	aagcttgggc	tttgcagtca	gaaacctggg	2940
ttcggatcct	ggcttcacaa	cttattatct	ggagaagtat	ttgaacaagt	atttaacatc	3000
tttgagtctg	ttttctgctc	tgtaaaaatg	gaaataatga	cacctactgt	aaggattaaa	3060
tgaattatg	tatacaatgc	aagtgcata	gtcaataaat	ggcagatcac	tattgttt	3118

<210> 1940
 <211> 10231
 <212> DNA
 <213> Homo sapiens

<400> 1940						
tttttttttt	tttttttttt	ttttttttgg	agacagggtc	tccctctgtc	accagggctg	60
gagtgcagtg	cagtgatgca	atctcggctc	actggagcct	cagcctccca	gttccagtg	120
attctcccat	cccagcctcc	agagtagctg	ggattacagg	aacgcgccac	cacacccagc	180
taatttttgt	atttttagag	acagggtttc	accatgtttg	ccaggctggg	ctcaaactcc	240
tgtctcaag	caatctgcct	gcctcggcct	ccccaaatgt	tgggattaca	ggtgtgagcc	300
actgtgccca	gtccatcatc	tattgtctgt	aataatttag	aaatctggga	ccaggattat	360
gaaattcact	atacagtgtg	tggcataaca	ccaagcttaa	atgggtcactc	agtggacttc	420
acaataatgg	ccactttatg	cttctggatg	caaaacgttg	ggagagtttg	aagtggatat	480
gaatttgaga	atgcgttttc	ttgtaggaaa	agtaatggaa	acataagat	ctttttctaa	540
tcacaggaaa	ggttaaggct	ttggtgaaa	caagcataac	tgagtttaaa	aacagtctag	600
aataagaaaa	gggtaataga	agaggaagga	aggcagaagt	ggaccatgca	gaataaacaa	660
tcaagcctag	cttttttaaa	aacctgaggt	cttactaaag	agaaaggagg	aaaaacggaa	720
gatttcaaca	taagagtgtt	aaagggtgaa	aagagccaga	aaggactgtg	ggcttaaaaa	780
aaaaaaatca	gtgaagcagt	agtgggtgat	gttggcaaa	agaagtgtag	agttgagagg	840
agggagagaa	tttatagtag	aggaagtggg	tgtgaagtgt	tcctctcaag	atgccagca	900
gagcaaagaa	ggaatgaagg	caaaggccac	tgggaataga	gagggtctgg	ggctaaaaca	960
gcacgggaga	gtgcaacagg	gcccacaaag	agacattttc	ttttcttttc	tttttttttt	1020
cattaattga	cccagatttg	cttgttttgg	accaaaggca	atgcagagtt	tagggatctt	1080
tataatttat	aaagtaatca	cctttggccc	aacataacac	agatcataag	gatcatggca	1140
gaattcgtct	ctgagacaag	tacaaaatac	cattttagag	ttgattttag	aagagaagtc	1200
agactaataa	attgctgtgt	tgtagaataa	ctatggtgaa	ttaaacagct	ttaacttttt	1260
ctatcagcca	caggataaat	acagaaaact	tataattaca	tacacatcca	cagaagatag	1320
tagcctcata	tgtctaaaat	gtgagttgtt	tgtctgata	ctgtagtcca	aagctcccat	1380
tccaagaaat	gtttttattg	gttcaaaaata	taaagggcag	gttagagggc	tacacagaaa	1440
aaaggctaaa	aataaagaca	gtaaaatgag	ggagaggaaa	agtgggaagt	cagcactact	1500
gatccagaaa	aactgaggca	tcagccacaa	agaattcaat	caagtacagt	agggggcaaat	1560
ggcacaaaag	ccaaacaaga	aaaaggctga	ataccatatt	accaatctga	gagcctcact	1620
tttggtttta	agtcaaatat	tgaattagat	tgtgcaactt	ttctattttt	atttttttat	1680
ttttaaaaat	ccacccaaat	tacttaaatc	atttgacaga	gtcatacaat	tttaaatgac	1740
tataaaaaat	tgcagatcag	tgcacaaatt	tttggcaaa	gctgaatggc	agacagtaat	1800
ccaagacgca	gacaaccttg	cttttaagcc	atccgttaca	cagagaccag	caggctccct	1860
tctacctgtg	agaccaaata	atcccaaaat	gtaaccaa	aatcataact	ccccctactc	1920
ctaaaaccta	cccttcaccc	ttcactgtct	acgtcagcct	ctggacagac	ctgatgcctg	1980
gggtttggcc	atttccgcct	tcccaccctg	tgttgggtct	cctcctccct	cctcaggtcc	2040
ctcagttctc	ccaggcctaa	cttggcgtgc	ttccttctct	tctcacccca	atcaatccgg	2100
ctctccttcc	ctttctgggt	tacgccacct	gcccgactcc	cgggtttccc	ctcggggggc	2160
cctccttgcc	ctgggggtct	ctctggcccc	gccaaagtct	cccaggggat	ccctccccac	2220
ctgcctccat	acagtcagac	tgtgttcagt	gtccgtttcg	cgcccgtagc	gacaccacga	2280
cagaagccca	ctaagtgacc	ctctgtctcc	agaaacctct	ctggctcctc	cagaccctcc	2340
ggggctcttg	ccgcagctc	ccctctccct	ccggcgggcg	gggtcggctg	tgactacca	2400
gagggccagc	ggccgggggt	ggggtggggg	ggccgggaat	ctctcacttc	ctctccgcgc	2460
acctgccccg	aggctggagc	gccgccccgc	cgggcctccg	gcggatgttt	tccttgttcc	2520
caagcgtgta	gtgcgcgcca	gccgccccct	ccgggacctg	cgcgcccagc	accgcgccc	2580
caggaccag	cgggcctggt	cctcaccact	cacccccctc	ccagcaggga	cgcctgcggg	2640

ctcgacccac	acctctgcac	cgccccccaa	cttctgggag	aggactcctg	gctcagccca	2700
gcctctagct	ttccagaagc	ccctatatgc	ctacctcadc	ttcgttatag	gcgatgaacc	2760
ttcactttctg	tccccgtttc	cgcacacgca	ccaatcccca	ctggcgatcccttcccccttc		2820
ggcatcaccc	ccaccttcat	gcgccccagc	tccccactca	catccgcccc	ctattgggct	2880
ggctctagct	tgcaagagca	gaaggtggcc	cagggccag	ccttccagga	tgtccccctgg	2940
acccccctctc	tgggaaaggc	ggcagagcta	ctggccactg	acaagacctt	tgggccctcg	3000
tgctagacag	gccttcgaat	ccacctgctc	cagcccagag	agcaggccca	ggccgtgcct	3060
cccacaccgc	agccgacctc	agagcaccct	gcctcaactg	tgagtttttt	cttggcaatc	3120
ctctgaaacg	gaaagggtat	cagtcctgac	tagggcgaaac	gtgagggtcca	ttctgcatct	3180
ccatccacct	tagctgtctc	cttggaanaag	gacagcaagg	gagttgagg	tgcactgaca	3240
cagtcatttc	tgaacagtga	agagatgaca	ggtagggtgg	tcccccttga	aaagtccagcc	3300
agaagtagct	gtatctgatg	cactaggtgg	cagggagtga	gtcttggagt	aaatgggact	3360
gaaaacgtag	aaaaaccaaa	taaatgccaa	agagactatc	cctatggaga	atacctagaa	3420
catgggtctt	tgaagtgtgg	aaaaatgaaa	gaaatccaat	ttgaccaggg	cctttagtgc	3480
caaagagatg	gctagcagga	gagtggtgag	aaaggagaaac	tggagagttc	acatgagcgg	3540
aaataggaag	aaatggatcc	aaatccaagt	gagaaaaagc	aggagactta	aagttagcct	3600
ggcaggatga	tgagaaaagg	acatcttgtc	ctagggtaga	ggcgagggtg	cagatctggg	3660
ggaagaaggc	ttattgggaa	cagtttctca	aactagacat	tcagaagtca	atacaagggc	3720
caaaaccaa	atgttcctgg	aggtacctgt	ttttgaaaga	ggtgggaaag	gtgacatgga	3780
ttaggggtct	ccatccccca	ggccacaggc	cagtagcagt	ctgtggcctg	ttaggaaagcg	3840
ggagcacaaa	gcaggagggtg	ggcggcaggc	gagtgagcat	taccgcctga	gctcctcctc	3900
ctggcagatc	agcagaggca	ttagattctc	acaggagtgc	aaacccact	gtgaactccg	3960
catgcaaggg	atctagattg	cacactcctt	atgagaatct	aatgcctgat	gatctgagat	4020
gaaacagttt	catccccaaa	tcatctcccc	gctgtatcc	ccctccatcc	actggtggaa	4080
aaattgtttt	ccacaaaacc	ggtccctggt	acaaaaaagg	ttggggactg	ctgacaagga	4140
gtatgagtgt	gaaagggtgca	gaggtctatg	ccaggagaca	gccatcccca	atagaagccc	4200
tcagctatgc	acaaaactgt	taatgtcatt	caaagaaaat	aatgtcgccc	atthtgcctc	4260
agagcttttag	ccccaatcac	agcaactgct	atttcctgac	gcttacgcac	cagagatggt	4320
gataagagca	ctgcacgcat	tatctcagta	atcctcataa	cagcccaatg	agttggcatt	4380
actatcccca	atthtatagat	gaggaaacag	gctcagagag	gtgaagtaat	ctgaccagggt	4440
tacatagcta	agtggagtca	ggatctga	ccaagaagac	tgtctctaca	gcccatgctc	4500
tcaataatcc	atcctgggct	cctccagaac	ctgtgggaaa	ctcagaggat	gccaaatgat	4560
aaattcctaa	aaacctcact	ccattatata	tgggaggaaa	gagaggacac	ctctgtgaac	4620
ctggagtgat	tcaccccatc	agggcactta	gagatgctcc	tctttgaaag	gggaaagaac	4680
catccccaga	tgtgggggtga	tcccacatct	gctgtatggt	tgaagggtgat	aagcaatgga	4740
cagttcacct	ctggaatgcc	tgaggaaaag	agaccctccc	caccatctct	gaggggcagc	4800
cctattttctt	ggatacattha	gggaaaccct	gccctaggat	ctgagggaaa	cacagtctcc	4860
actccagggtg	cctgctcact	ctctggagc	ttctggccgt	cgcaccctat	tgcagctcct	4920
gggtttggct	ggggcacagg	attaaccatc	cccaggaaat	gcctccctcc	ggtccaggca	4980
gggatcccg	catacacacc	cctggtggtg	gcagtggggg	agaaaggggg	aaggtggaat	5040
gcttccttct	ctccagggtca	gggaagagat	ctggggacca	cctggggggc	ctcccccctc	5100
ctgcctcctt	gctgggggaag	tgcccagtec	agtccccct	ccatggccac	ctccctccct	5160
ctagctgtgc	cggggcatga	atcagctctc	acagcttggt	aaagctagac	ctcttggttt	5220
catgccctca	cctcaggaaa	cagagttaca	acttttccag	ctctactcag	cagggggcca	5280
gggtcctcac	tttataaaca	tccccagcct	gtgagagcag	agggcaggga	gatagtgtga	5340
gacaggagcc	caggggagaa	agacagaaac	taagactcaa	ggagcaacgc	aaagcaaagt	5400
caaggagtca	agaccagagt	agctgagcag	aggccaagaa	gggtctgaga	gggtgtgca	5460
gcagcaatgg	ccctaaggat	gctctgggct	ggacaggcca	aggggatct	aggaggctgg	5520
gggatcatct	gcttggtgat	gtctctactc	ctccagcacc	caggagtcta	cagcaagtgc	5580
tacttccaag	ctcaaggtaa	agtggggtga	agcgttagga	atggaggagc	agcagagagg	5640
gcacagggag	tgaggggcct	tacagatgat	cccgtgtcaa	aatacccagg	cttccctcag	5700
ctgtgaaaca	ggaaagacaa	actaaatacg	gggatagtgc	gtacttactg	tctccacccc	5760
agaccagaag	agcctctgcc	tctcatcagc	actcctacac	ctactaacat	ttcccgttct	5820
tccttagccc	cctgtcacta	tgaggggaaa	tattttaccc	tgggtgagtc	ttggctccgc	5880
aaggactggt	tccattgcac	ctgtctgcat	cctgttggcg	tggctgctg	tgacacgtga	5940
gtgaccaaag	atggccagag	agaatgactc	tgatatgagt	gactgaggga	tgaccaggga	6000
gtgactagat	tgctgtgatg	taagaatgaa	cagaagagca	atacaagatg	ggccaaacct	6060

gaagggacca	acactagtgt	gaaagataag	gcttcaggct	ataaatcagg	ggaggttggg	6120
gtggacctgg	agagaaaaata	ctcctgttat	aaaacaaaaa	ggcccacata	tggtaggtga	6180
cagcttagtt	aggaggacca	agggggccact	gaaaggggct	ctgtgggggg	aaaactgtga	6240
gagagggaac	atgtgggcag	ggataaaggc	agcctttcac	tgtgctgact	ccttccccta	6300
tccttggttc	cccaggctcc	agcatcccat	cgacttccg	gctgggtgtg	aggtacgtca	6360
ggaggcagga	acctgccagt	tctccttggg	gcaaaaatct	gaccctcggc	tgccctgcaa	6420
agggggaggg	cctgacctag	aatggggctc	agccaacacc	cctgttcctg	gggctcctgc	6480
tccccactcc	agctaaactc	aactgatcat	ccatctgctg	actgctcact	gctgctgcca	6540
cttccaggga	aaccactagc	agctgccaat	gtattctgaa	caaataaatt	aatgctatag	6600
ctgaaagccc	gactctcact	gtccacgaca	ttggacccca	ggtggaaaaa	gtgggtccca	6660
ttagagtcca	ggtgctgagt	tctcagtatc	cggaaggaaac	tagcaccagg	gtgggccagt	6720
ttcagatggg	tatgtgtctg	gtgctggggc	ctggggcagc	atatgaggcc	aggggtggggc	6780
tagtaggcag	caccttgatg	ggcagggtccc	agctgaagggt	gtctacaggt	acttgctcag	6840
gtcctgtcca	ggtggttaggt	tcgggctgtt	ccacaggggg	taggagtacc	aatcctgggt	6900
ctcgggacgt	tacaaattca	aaatgcaatc	tccacttcaa	ggacactatg	gaagaaaaag	960
attaaggtag	aagcatcaga	agctagcagg	agtaaaagcc	aatgacagga	tatagttagt	7020
gaatgagaag	aaaacaatct	gtgttcagga	agacagggaa	aagtcacagg	gcagggagct	7080
gtgattaagg	gtttttctga	agcaatgggt	actaccacag	atgtgagctg	aagatagcag	7140
tattaagtag	ctaataacct	aagagtggg	cagtcaagtc	taggtagcat	gaagtaatca	7200
aaaatcagtg	tatcacaggg	tcctagttagg	taggtgtggg	gaaggagttc	tatcaagctg	7260
ttaggagttt	aggggtcagt	gcatctaaga	aacagggaaga	ggttgaagggt	ctgagaaact	7320
gttcggggtc	agaggctaga	cgtgggtatg	tctgggagtg	tgtataagga	atcaggatc	7380
attacaccct	cccttagcac	agcattttac	tgtccccctc	tcccttctcc	agtaacagtg	7440
aggggtctcac	caatggctgt	acagaagcct	gggggtggagc	tgagagggat	tgggagggag	7500
aagctggttc	tagttgtatg	taggcaggat	tcctgggtgcc	gggctgtagt	cacatgtgac	7560
acagagggga	cacccctgc	ccacgtcgc	cgtggtact	caggctgtac	acgctcctcg	7620
gtctgtaagc	tgactgaaaa	ctgggagcaa	gagacaggtg	tgtgctaaca	ggaagtgtctg	7680
tctgtaggtg	agaggacagc	ccaacctcaa	gctgttttac	aaagggaccc	tggtatgacc	7740
cactatcccc	ttctacatgc	cacccctctt	tatacaggcc	ttccacccta	gccttcaac	7800
cccagcaccc	cagcaggtaa	gaagctctgc	tccttcttta	cctgcaaaca	agctacgggt	7860
ccttccccta	agtttaagggt	ccccaccacg	tcctcgccaa	gtctgtacac	agatttgaag	7920
atgccaaacg	tcccaacttt	ccctcgccca	tcactgatat	tgtatagatc	tggggagagt	7980
aggacactat	aagcctggag	tctacatact	ggataacgtc	taggactggg	caccacaggt	8040
caaaagatgg	ggcttttctt	taaaatttga	ggtgtcaggt	atcagtggat	ccacagaagt	8100
gtgtggtggg	taggagactg	tctctgagat	gggaaaacaa	tgaggggaag	gatggggtag	8160
gacaattctg	aaagaattct	cacggagggt	gcggcaggat	gtggcagca	ttaggcgttc	8220
cccagccagc	tcagctagcc	atgaatcttt	cttcccacct	tcctcctcct	ccaagaatgg	8280
actggatggg	gctacagcct	catcctgggg	aaaccggaca	tcctgaaggc	ctagagaaaag	8340
aatgagtggg	gaggtaatgc	tgagagggga	cggagatgag	agtagaggtt	aggggttttag	8400
attctaacat	gagatggcta	aaggtaaggg	gtgccagggc	tgaggtttac	atctctatct	8460
ccagaacctt	ccctcccttc	ccaactccct	agcactgtca	ctgagaccag	gaagtttccc	8520
tgcagtcctt	cttgcaagcc	ctctaagaca	atttctgctt	tggcatcgcc	cttccccagc	8580
ccttccctcc	aggagccctt	gcttaccagt	cagcacaaaga	ccctcagag	ggactctgag	8640
taaagtgata	ggggagttga	cacgctggca	gccaatgggtc	agtttgtaga	cgtacttgac	8700
tgactgacct	cgaaaggagg	gtggtccctc	tatgggcagc	acttcaactgt	aggagtctgg	8760
ttgggaagta	gttgtcagga	cagccagagg	caccagagga	gtcctccctc	caggagactt	8820
agaaggcaat	tcagggatgg	ggacaatcac	tcacatgatt	tggactctcc	aggatcaagc	8880
ctcagggtca	agaatagaat	tttcgggtga	gtagaaagga	tacactggcc	cctctcacct	8940
gaaaaggtga	aaaatgacta	atttaatgac	ccattgtcca	gtactgaaca	agactagcac	9000
ggcaagtggg	gatagtgaaa	ggctgccagg	ccctcgtcc	ctgctgtgaa	atgggaatag	9060
tcttctaccc	ctaaagcaat	agtcatgctc	cccaacatcc	ccagcatgac	agggactata	9120
agaacaagaa	caattaacaa	cttcacccat	gggtgacaat	gcctccacac	acaccctccg	9180
cacccccctt	ctcccaggca	aatgccccctc	tctaacctcg	gtgtggcaga	aagacagtct	9240
ggctgtcggg	ctggacatct	ggctgactag	agtcaggagg	aggcagtgtc	actcgactct	9300
cactggcatg	gaactggcag	tggattttggg	cactggccca	ggccagggcc	tcactgtggg	9360
aaaaggaaaa	ggaggcatca	gaggtagtctc	ctgacctcac	aaatgctttc	ccaagctccc	9420
tatcacacca	tcttaaccaa	caagggttaga	tggctgtcct	agtgatcagg	aaatccacaa	9480

tcccaaagag	aaaccattaa	ataaagagta	gcagactgtg	cgtaaaaagg	ggaacggggg	9540
aggggaagga	aagcgtacag	ctatgtcatc	cacatcttct	gttaaagagc	cctctcctac	9600
aatgacagca	cagtgaagca	gaggaggtgg	tgtcgctaca	ggacaacctg	agctctgcct	9660
cagccccaga	gataatctgg	cttcttccca	gaagggccac	caccttcagt	gccagcatcc	9720
ccacctggat	gcagaagtgg	ccgtgggcgg	aaggggggtt	gtgacggtca	ctacacactc	9780
cagcgctcc	ccagccaaaa	atacaggacc	ccggctgagc	tctgctacca	cttcaatcat	9840
ggcagctccg	gaatcagatc	tagaaggaaa	caaggcgggg	cggaggtcag	caccttgaca	9900
gggagggggc	ttgcggtgag	cacctagggc	tgagggtga	ggacaggggt	ggtcagcacc	9960
gtggtgccc	agggagctcc	tggatatagg	aggggtaggc	gggtgggagg	gaggcgactg	10020
aagactcagt	actgcccagg	gggaggacat	cgctctgggc	cctagacccc	agccctgtg	10080
cgacgggttc	ttctccctgg	gcacccccgc	ggagttccca	aactggcctc	cgctccccct	10140
ttctcaaaag	ttccacgtcc	cagcccaaga	tcaccgccgc	tagtcacctc	gcatagtcga	10200
cactagggat	cggcaccctt	aggcctcatc	t			10231

<210> 1941

<211> 7328

<212> DNA

<213> Homo sapiens

<400> 1941

aaccattcca	catttgtggg	gaagatctgg	ctcactgttc	tgattgtctt	ccggatcgtc	60
cttacagctg	taggaggaga	atccatctat	tacgatgagc	aaagcaaatt	tgtgtgcaac	120
acagaacagc	cgggctgtga	gaatgtctgt	tatgatgcgt	ttgcacctct	ctccatgta	180
cgcttctggg	tgttccagat	catcctggtg	gcaactccct	ctgtgatgta	cctgggctat	240
gctatccaca	agattgccaa	aatggagcac	ggtgaagcag	acaagaaggc	agctcggagc	300
aagccctatg	caatgcgctg	gaaacaacac	cgggctctgg	aagaaacgga	ggaggacaac	360
gaagaggatc	ctatgatgta	tccagagatg	gagttagaaa	gtgataagga	aaataaagag	420
cagagccaac	ccaaacctaa	gcatgatggc	cgacgacgga	ttcggaaga	tgggctcatg	480
aaaatctatg	tgtgagctt	gctggcaagg	accgtgtttg	aggtgggttt	tctgataggg	540
cagtattttc	tgtatggctt	ccaagtccac	ccgttttatg	tgtgcagag	acttccttgt	600
cctcataaga	tagactgctt	tatttctaga	cccactgaaa	agaccatctt	ccttctgata	660
atgtatggtg	ttcagggcct	ttgcctcttg	cttaacattt	gggagatgct	tcattttagg	720
tttgggacca	ttcgagactc	actaaacagt	aaaaggaggg	aacttgagga	tccgggtgct	780
tataattatc	ctttcacttg	gaatacacca	tctgctcccc	ctggctataa	cattgtgtgc	840
aaaccagatc	aaatccagta	caccgaactg	tccaatgcta	agatcgctta	caagcaaac	900
aaggccaaca	cagcccagga	acagcagtat	ggcagccatg	aggagaacct	cccagctgac	960
ctggaggctc	tgcagcggga	gatcaggatg	gctcaggaac	gctggatct	ggcagttcag	1020
gcctacagtc	acaaaaacaa	ccctcatggt	ccccgggaga	agaaggccaa	agtgggggtc	1080
aaagctgggt	ccaacaaaag	cactgccagt	agcaaatcag	gggatgggaa	gacctccgtc	1140
tggatttaat	cctggcgggc	ttaaaacctg	tgcttttcat	agtttatggt	aagcagcagc	1200
tcactgaata	atgacttcca	ttgagtaaac	atttggctct	ggttatcttc	agggatgctg	1260
ttggctcatg	atccaagctc	aggggactct	ggaggcgggg	ctgggctgag	ggagagaaag	1320
ggaaacacag	tgttcccagg	cacatgttct	tagcaataat	acagttgcag	aactttacat	1380
ttgtgtcttc	cagatctgga	gaagaacaga	catattbaa	tcattcttgt	tgaacagttt	1440
ttgtatgtac	agtattatgg	tacttttttt	tttttagtat	gagaactttt	tttgtatttg	1500
tacattgaac	tgtgtagtt	atactttttat	attaaagggg	aaaaagtcct	tataaataat	1560
gcctatttag	ctagtgtat	tactttgttc	agcaaattct	accctggctt	tagagttttt	1620
aatagatgct	acacctaata	aaagtgcctc	tcatattgca	ggaacgattt	cagatgtgta	1680
aggagactga	agaggagata	ccagttttta	gtcttgga	gcaagttcac	agtagaagga	1740
ggttgagatc	tttcttttat	gtgagaaaac	tttgaatctc	attcatgcga	tcagagttgt	1800
agccaatttt	tgaaaacctt	attttcaaag	gaataaatg	attcactgta	ggattccttt	1860
aaatatcaag	catcaccagt	atatgctttg	atggtatatg	tatataactt	aaagttcttt	1920
caaaagcctg	atacagaaac	gtgtccccag	tttggtagca	atgtggaaaa	cctggctaga	1980
gatgatgtga	agctgtccct	cagaaagcaa	agccatgcct	ggaatcccta	ataggctgct	2040
tagttgtgaa	cctggttgat	ttgccttaag	cctctatcca	gaaacctgcc	cgcttccgtc	2100
tggttaagaa	gccagttggt	gatattttct	ttgttaacat	tagaaatgca	aacattccct	2160
tgtcaaccaa	gaataactcaa	agctacttgt	attggaaatg	gcagaaggcc	taaatccaaa	2220

tttcttattt	tttataattt	accatagaag	ttttgtgatt	aaattcttac	ttctgccagt	2280
ggaggtttat	gcctgaaagg	tcattggggtc	ctgtctgtaa	atagacctaa	agagaagtgc	2340
agtatttatt	ctttgtaggc	ataatgtgtt	tgctactgac	aagcattcat	gttcatccca	2400
ctagtctttt	attgcagctc	tttattgtca	ttttcagcct	tatgttggag	agctttgtt	2460
tctcatcatg	ttcacattgt	cttaagtttt	gtgagcttct	gagaaagagc	ttggtaaaag	2520
tttaaagggg	actttgttcc	accagggagc	attttatttg	ggcgtctcac	ccttttctaa	2580
tgaaagctgt	tgtaagccac	ctctgacttg	gaaattctga	aagtatgaat	attttttata	2640
tcttaattgt	aaaatgccag	ttctccatta	tttagatgaa	tagtagaaca	ctgcaccctt	2700
tgtgcagtgt	ttttgtttct	ctactgcatt	cctaccccca	ccaaaaaaaa	gaaacttaag	2760
gaaatttttt	tttgagacag	ggctctccctc	tttcacccag	gctggagtgc	agcagcatga	2820
tctcagctca	ctgcagcctc	tgccctcccag	gctcaagcaa	tcattccacc	cagcctctt	2880
gattagctgg	gactacaggc	atgtgccacc	atactcggct	aattctgttt	taaaaaattt	2940
ttttgttagag	atgaggtctc	actatgttac	ccaggctggg	ctcgaacttt	tgggttcaag	3000
tgatccctcc	gcctcagcct	ctcaaagtgt	tagtattata	ggtgtgagcc	accatgcccc	3060
gcctagaaaa	tttaacctta	tcttttagcc	attcattttac	ttttatttgc	ttttttaaaa	3120
aaaaatcttt	aaatttttagc	ctagagaagc	acctcaggaa	ctctaaacat	cttaggcaaa	3180
aattaaactc	aggtgagact	gaaggagaaa	tttcagaaat	acacatgtac	ctcatgggta	3240
attaatagac	atgcacagtt	tccttcaaatt	caaattgttta	ataaggaat	tcataataatt	3300
ccaagaaaaa	aggcaaaatt	tggaatacat	aagcctagct	aagataaaga	actaccagtt	3360
aattcttaac	atcatctggag	cttcacgcag	gtttttttaa	tgaaggacaa	aaagtgtcca	3420
tacattttgtg	ttatctcttc	agagcctgag	ggagaagaga	gtggctttgc	ccagtggaaa	3480
ggctggggat	ttgagaatga	tacaggggga	aggagtcaag	cagaaatgcc	aggaagaacc	3540
aggcaaagac	atgtggcgcc	agaagcatcc	acttaatttc	tgtgaagagt	gcccctgggtg	3600
tttcatcttg	gcctgttttg	atgagaatgt	tatcttttgt	gtctggataa	cgctcagct	3660
tcttaaagta	catataaaga	tattctgtca	cctccccacat	gcacacact	tttaaaatct	3720
atttttattc	tcttgctaaa	gttgtaatta	tgtcaagaat	tttcagctc	taactgcctt	3780
cttagtacat	gtctttctgc	ctttgaagca	tatgagtttg	ccaaagtcat	tctcccctaa	3840
tgacatattg	tggacttaca	ttaagaaaat	gggccaggcg	cggtggctca	cacctgtaat	3900
cccagcactt	taggaggccc	aggcggttg	attacctgag	gtcaggagtt	caagaccaga	3960
ctggtcaaca	tgggtgaaact	ccatctctac	taaaaataca	gaaattagcc	aggagtgtctg	4020
ggtggacgcc	tgcaatccca	gctacttggg	aggttgaggc	aggagaattg	cttgaaccca	4080
ggaggcagag	gttgacagtga	gctgagatca	taccattgca	ctccagcctg	caagacagag	4140
tgaaactctt	gtctcaaaaa	aaaaaaaaaga	aaaaaagaaa	gtgagcctgt	tgatgtctag	4200
ctaaccctt	ggtggagtct	gcattgaatc	tgtaagaata	ttgttctgga	tcattgcaggt	4260
gggatttgta	taaaaagcct	gtccaacatt	tagttctcac	tcgcattcaga	atcatactgt	4320
tttgaattgc	catataagac	atgctccatc	atgacacttg	cttctcctcc	aaatacaagt	4380
tgagtgttta	gtccttcacc	tgctagaatc	aggatacaat	caacatgatt	atgttcctta	4440
acacacttgg	atttatgcag	atgtggtgtg	tcctttgctc	ttttttttct	taagacagag	4500
tcttgctctt	gtcgtcagg	ctggagtgc	gtggtgtgat	ttcggctcac	tgcaacctcc	4560
gcctcctggg	ttcaagcgat	tctcctgcct	cagcctcccg	agtagctggg	attacaggca	4620
ccaccaccat	accaggctga	ttttttttgt	atttttaata	tagacagggc	ttcatcatgt	4680
tggccaggct	ggcaggctgg	tctcgaactc	ctcacctcgt	gatccgcccc	cctcagcttc	4740
ccaaagtgct	gtgattacag	gcgtgagcca	ccgcgcctgg	cctgctctta	aaaccgcta	4800
ttcagaagat	ttgtaaaaga	aataggcttt	tttttttttt	ttggttaatt	caaacgaggg	4860
gaaaattaga	tagcattttc	ccctaaagaa	atgttaatgt	tcattttgtg	gctttgtttt	4920
caagtttcag	gagccatgta	catdcagaa	gtgttacgaa	gtgattagaa	aaggcctctg	4980
gtaaaagacc	ttcaaggacc	aaccattatt	attggtcact	tgtttgaact	tggcgcttaa	5040
aaaaaaagt	ggactgtgat	gctttgggtc	tctttatcac	agacatcagt	gatggtctga	5100
aacactctct	agcagtttat	acgaagaatg	gacttacatg	ttatcagtta	caactatgat	5160
ttactcgttc	agcttctaca	agtcataact	ttatgtgtgc	tcattttaaga	gacagtccac	5220
ttctgaaaa	aaaatcgata	gttgatgata	cattttttggc	tagccagctt	tctgtaaaag	5280
gcaagtatgt	tagacatgca	cagtttcctt	caaatcaaat	gtttaataag	gtacttcaag	5340
aaacgccttt	ttaaaaatca	aaggttttgg	ccaggcatgg	tggctcacgc	ctgtaatccc	5400
agcacttttg	gaggccaagg	tgggcgaatc	acaaggctcag	gagtttgaga	ccagcctggc	5460
caacatggtg	aaaccccgctc	tctactaaaa	ataccaaaaa	ttagccgggc	gtggtgggtg	5520
gtacctgtaa	tcccagctac	tcaggaggct	gagatgagaa	tcacttgatcc	caggagggtta	5580
gaggttgcag	tgagccgaga	ttgcgccatt	gcacttcagc	ctgggcaacg	agtgaactc	5640

tcaaaaaaaaa	attcatagta	ataataaagt	ccctgcatgc	agtttgaaaa	taaaatttaa	5700
actcatttat	gtgtaataaa	tatgtaataa	ttcacagtca	ccatcaaata	ttggaatcat	5760
tgaattgcat	acttgtagtc	attccggcca	catcatgaag	tgtttaaaga	tttgtatttg	5820
ctgttgcccc	tatgtagttc	tattgatggt	tggttttggt	ttttgggggt	tgttttgagc	5880
ccaggctaga	gtgcaatggc	acaatctcaa	ctcactacag	cctggacctc	cttgggtcaa	5940
gcagtcctcc	cacttcagcc	tcccaagtag	ctgggtctgca	agtgtcacc	accacacctg	6000
gctaattttt	gtattttttg	tagagacaga	gctctcacta	tgttgcctag	actgggtctca	6060
aactcctggg	cccaagcaat	cctcccatca	cagcctccga	aggtgctggg	attacaggca	6120
taagccactg	tgcccagcct	gttttttaata	atgatattaa	gtgggttttg	ttcatgtggt	6180
attaatcagt	gttaataatc	gtactttttt	ttttttttta	aagaaacat	ggtatttcta	6240
aatcaggagt	ccaaataaaa	gaaagtcttc	ggctgtgcac	ggtgggtaac	acctgtaatc	6300
ccagcacttt	gggaggctga	ggtgggtgga	tcactagagg	tcaggagttt	gaaacaagcc	6360
tgccaacat	ggtaaaaccc	cctctctact	aaaaataca	aaattagccg	ggcatgggtg	6420
tgcacacctg	taatcccagc	tactcgggat	gttgaggcat	gagatttcct	tgaacctgga	6480
aggcagaggt	tgctgtgagc	cgagatcgcg	ccactgcact	ccagcctggg	tgacagagta	6540
agactgtcgc	caaaaaagag	gaaaaaagtt	atccagtgcg	gtttctacag	agataaaaga	6600
agtaatagtt	ctggctgggt	gtggtggctt	atgcctgtaa	tcccaacact	ttgggaggcc	6660
aaggcaggtg	gatcacatga	ggtcaggagt	tcgagaccag	cctggccaac	atggcaaaac	6720
tgtctctact	aaaaatataa	aaattaggtg	tggtggcacg	tgctgtact	tacagctact	6780
tgggaggctg	aggcatgaga	tgacaatctc	ttgaacccag	gaggcggagg	ttgcagttag	6840
ctgagattgc	accactgcac	tccagcttgg	gtgatggagt	gagactcaaa	taaaaaagggt	6900
actagtctctg	catttcagag	ttggcttggt	gaaccaggct	atatgcttcc	aagattttaa	6960
tgtttttctg	tattatactc	tcaattgtgt	tttaaaaaaa	tctcttacag	aaatctctac	7020
ctcaggcact	aagtgttatg	acatgggtag	catattgata	ttgaaaactt	agctaggact	7080
tccagccttt	taagataatt	taaatgtaaa	attaaatggt	taaccagcaa	tctaattgtca	7140
tgtggtgtgc	agtttgata	ttgcatgaac	agctaaggaa	tcacctgttc	tagtgccaaa	7200
gatcactcat	tgctaatttt	gttctgttaa	gcttatgtaa	tattttcatg	gtggagacgg	7260
actctgtgtg	ctcagggcct	tgtctctagg	aagattttgt	caattccaaa	tacagttttg	7320
aagattca						7328

<210> 1942
 <211> 1387
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (903)..(903)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1320)..(1322)
 <223> n equals a,t,g, or c

<400> 1942						
gttttttagtc	ttggaaagca	agttcacagt	agaaggagggt	tgagatcttt	cttttatgtg	60
agaaatcttt	gaatctcatt	catgcatca	gagttgtagc	caatttttga	aaaccttatt	120
ttcaaaggaa	ataaatgatt	cactgtagga	ttccttttaa	tatcaagcat	caccagtata	180
tgcttttagtg	gtatatgtat	ataacttaaa	gttctttcaa	aagcctgata	cagaaaagtg	240
tccccagttt	ggtagcaatg	tggaaaacct	ggctagagat	gatattggag	tgtccctcag	300
aaagcaaagc	catgcctgga	atccctaata	ggctgcttag	ttgtgaacct	gtttgatttg	360
ccttaagcct	ctatccagaa	acctgcccgc	ttccgtctgg	ttaagaagcc	agtgtgtgat	420
attttctttg	ttaacattag	aaatgcaaac	attcccttgt	caaccaagaa	tactcaaagc	480
tacttgtatt	ggaaatggca	gaaggcctaa	atccaaattt	cttatttttt	ataatttacc	540
atagaagttt	tgtgattaaa	ttcttacttc	tgccagtgga	ggtttatgcc	tgaaagggtca	600
tggggctcctg	tctgtaaata	gacctaaaga	gaagtgcagt	atttattctt	tgtaggcata	660

atgtgtttgt	cactgacaag	cattcatggt	catcccacta	gttttttatt	gcagtctttt	720
attgtcattt	tcagccttat	gttggagagc	tttgctttct	catcatgttc	acattgtctt	780
aagttttgtg	agcttctgag	aaagagcttg	gtaaaagttt	aaaggggact	ttgttccacc	840
agggagcatt	ttatttgggc	gtctcaccct	tttctaata	aagctgttgt	aagccacctc	900
tnnacttga	aattctgaaa	gtatgaatat	tttttatatc	ttaattgtaa	aatgccagtt	960
ctccattatt	tagatgaata	gtagaacact	gcaccctttg	tgcagtgttt	ttgtttctct	1020
actgcattcc	tacccccacc	aaaaaaaaa	aacttaagga	aatttttttt	tgagacaggg	1080
tctccctctt	tcaccagggc	tggagtgcag	cagcatgac	tcagctcact	gcagcctctg	1140
cctcccaggc	tcaagcaatc	attccacctc	agcctcttga	ttagctggga	ctacaggcat	1200
gtgccaccat	actcggctaa	ttctgtttta	aaaatttttt	ttgtagagat	gaggctctac	1260
tatgtttacc	aggctgtgtc	cgaacttttg	ggttcaagt	atcctcccg	ctcagcctcn	1320
nnaagtgtta	gtattatagg	tgtgagccac	catgccccag	ctagaaaatt	taaccttata	1380
tttttagc						1387

<210> 1943
 <211> 856
 <212> DNA
 <213> Homo sapiens

<400> 1943						
agatgcttca	tttaggggtt	gggaccattc	gagactact	aaacagtaaa	aggagggaac	60
ttgaggatcc	gggtgcttat	aattatcctt	tcacttggaa	tacaccatct	gctccccctg	120
gctataacat	tgctgtcaaa	ccagatcaaa	tccagtacac	cgaactgtcc	aatgctaaga	180
tcgcctacaa	gcaaaacaag	gccaacacag	cccaggaaca	gcagtatggc	agccatgagg	240
agaacctccc	agctgacctg	gaggctctgc	agcgggagat	caggatggct	caggaacgct	300
tggatctggc	agttcaggcc	tacagtccac	aaaacaaccc	tcattggtccc	cgggagaaga	360
aggccaaagt	ggggccaac	gctgggtcca	acaaaagcac	tgccagttag	aaatcagggg	420
atgggaagac	ctccgtctgg	atttaaccc	ggcgggctta	aaacctgtgc	ttttcatagt	480
ttatggtaag	cagcagctca	ctgaataatg	acttccattg	agtaaaccatt	tggtctctgt	540
tatcttcagg	gatgctgttg	gctcatgac	caagctcagg	ggactctgga	ggcggggctg	600
ggctgagggg	gagaaaggga	aacacagtgt	tcccaggcac	atgttcttag	caataatata	660
gttgacagac	tttacatttg	tgtcttccag	atctggagaa	gaacagacat	atttaaatca	720
ttcttgttga	acagtttttg	tatgtacagt	attatggtac	tttttttttt	ttagtatgag	780
aacttttttt	gtatttgtac	attgaactgc	tgtagtata	cttttatatt	aaaggggaaa	840
aagtccttat	aaataa					856

<210> 1944
 <211> 971
 <212> DNA
 <213> Homo sapiens

<400> 1944						
gaagcacctc	aggaactcta	aacatcttag	gcaaaaaatta	aactcaggtg	agactgaagg	60
agaaatttca	gaaatacaca	tgtacctcat	gggtaattaa	tagacatgca	cagtttcctt	120
caaatacaat	gtttaataag	gaaattcata	taattccaag	aaaacaggca	aaatttggaa	180
tacataagcc	tagctaagat	aaagaactac	cagttaattc	ttaacatcac	tgagagcttc	240
agcaggtttt	ttaattgaag	gacaaaaagt	gtccatacat	ttgtgttatc	tcttcagagc	300
ctgagggaga	agagagtgtc	ttgccagtg	gaaaggctgg	ggatttgaga	atgatacagg	360
gggaaggagt	caagcagaaa	tgccaggga	aaccaggcaa	agacatttgg	cgccagaagc	420
atccacttaa	tttctgtgaa	gagtgcacct	ggtgtttcat	cttggcctgt	tttgatgaga	480
atgttatctt	ttgtgtctgg	ataacgcgtc	agcttcttaa	agtacatata	aagttattct	540
gtcacctccc	cacatgcaca	cacttttaaa	atctattttt	attctcttgc	taaagttgta	600
attatgtcaa	gaattttcca	gctctaactg	ccttcttagt	acatgtcttt	ctgcctttga	660
agcatatgag	tttgccaaa	tcatttctcc	ctaataacat	attgtggact	tacattaaga	720
aaatgggcca	ggcgcgttgg	ctcacacctg	taatcccagc	actttaggag	gcccaggcgg	780
gtggattacc	tgaggtcagg	agttcaagac	cagactggtc	aacatggtga	aactccatct	840
ctactaaaaa	tacagaaatt	agccaggagt	gctgggtgga	cgctgcaat	cccagctact	900

tgaggaggttg	aggcaggaga	attgcttgaa	cccaggaggc	agaggttg	gtgagctgag	960
atcataccat	t					971

<210> 1945

<211> 5365

<212> DNA

<213> Homo sapiens

<400> 1945

gtccacgtgc	ggctgcgcca	gcgcatacatc	ttgtacgaat	ttaaaggtgcg	attagggagc	60
ggggtctgca	actgggtagg	gaccagacag	gaccgggctg	agataacgca	cagggcctaa	120
ctcgggtgatg	gggctcccg	agagatgcta	agcagctcct	tctccaagaa	aggcaggtcc	180
tggggaatga	gaaggttgag	aggaggccga	gatagggtcg	cccagagctcc	aagcgtgtag	240
gaaaaggatg	cgccagggtc	gggatcggtg	gctaattgctt	gtaaccag	cactttggga	300
gaccgagaca	ggtggatcgc	ttcagtctag	gagttcgaga	ccagcctggg	caacataggg	360
aggctccctc	tctacaaaa	aaaaaaaaaa	aaagtttggt	tttttttaag	taagcacaag	420
aagcgggagg	ggcctaaggc	aatttggttc	aaagttaagt	gatgggagcg	gccagcaggg	480
cgtcttgata	cagctgaact	ggaacttcag	gccaggaata	aagcgcaggg	ccacctgggg	540
cgggagcctc	tgatgggcag	ggctgaccag	gggcgggtct	tgggatgctg	ggcggagcct	600
caggggagcg	gcctggggtg	ctgagattga	ccgcggaggg	atgggggctt	gggttgctgg	660
atccggccgc	gaaggggagg	ggctgtaaag	ggccgctgggt	tcctggagc	gggtggaacc	720
aggactgcag	aggttggttag	cggttgggga	gacggctgca	tcagtccacg	ttaaggagga	780
tctctggaga	gccagacctg	gggaaccggg	aggcccgccg	cttgggaaat	ggagtccaag	840
cgggcatctc	tcctgccttc	aggtggagct	ggaggagaca	gtggtgcggc	gccaggctgc	900
ggtgcggagc	ctggggccagc	aagccagggt	ttggttggtg	cgggtgctgc	tcaacctgct	960
ggtggtcgcg	ctcctggggg	cagccttcta	tggcgtctac	tgggctacgg	ggtgcaccgt	1020
ggagctgcag	gtgcggacgg	tcttggaaga	ggaagccagg	gggtcctgga	acctacattt	1080
ccaacggtgg	agggaggggga	cggaagtgtg	ggatgcaga	gatcttagag	aggaagtatg	1140
ggagagggtta	tgctcgacc	ctggacttag	ggatttttaa	ggaaaaagag	aggctgggag	1200
cgggtggctta	cacctgtaat	cccagcactt	tgggaggctg	aggcgggagg	atcacgatgt	1260
caggagttcc	agaccagcct	gaccaacatg	gtgaaaaaca	gtctctacta	aaaatacaaa	1320
aattagacgg	gcgtggtggt	gggcgcctgt	aatcccagct	actcaggagg	ctgaggcagg	1380
agaatcactt	gaaccgggga	ggcagagggt	gcagcgagcc	gagatcgcac	cgctgcattc	1440
taggctgggc	aacagagcga	gactctgtct	caaaaaaa	aaaaaaaaga	agaagaagaa	1500
gaagaggccg	gggggaggac	cttaagcttg	gtcctccag	gaccccaagc	ctctactcat	1560
ggtccatccc	gctcccagga	gatgcccctt	gtccaggagt	tgccactgct	gaagcttggg	1620
gtgaattacc	ttccgtccat	cttcacgct	ggggtcaatt	ttgtgctgcc	gcccgtgttc	1680
aagctcattg	ctccactgga	gggtacact	cggagtcgcc	agatcgtttt	tatcctgctc	1740
aggttccagc	ctcacgggga	tggctgggaa	tgatgaaggg	tgggggaggg	cagagggatg	1800
ttggcgctga	caggtaagac	acggaaatcc	tgtcgatacc	gaatccaggg	attcaaatcc	1860
tgactctgtt	ggccagggtc	agtggctcac	acctgtaatc	ccagcacttt	gggaggccga	1920
ggctgaggtc	aggagttcga	gacagcctg	acaaacatga	tgaacccccg	tctgtagtaa	1980
aaatacgaat	attagcccgg	cggtagtggc	ttctgtagtc	ccagctactc	gggaggctga	2040
ggcaggagaa	tggctcgagc	ctgggagggtg	gaggttgtag	tgagctgaga	tcgcgccact	2100
gactccagt	ccgggtgaca	gagtgcagcc	ctgtctcaaa	aaaaaaaaaa	aaaaagaaa	2160
gaaagaaaga	aagaaatcct	gattctgtca	ctgggcctca	gcttcactctg	tgagatgggt	2220
tgaatgcggg	cggttccac	tgagaaggga	actgccacat	ggtgggtacc	gggtcagggc	2280
ccattctctg	ccttcccccc	ttcaggaccg	tggttctctg	cctcgccctcc	ctggtgggtcc	2340
tgctcttctc	tctctggaat	cagatcactt	gtgggggcca	ctccgaggct	gaggactgca	2400
aaacctgtgg	ctacaattac	aaacaacttc	cggtgagaac	ggcatgggtg	tgctgtggac	2460
tcttgggtcc	ctgaaggaaa	gatggagctg	ggtgggtcca	gactcttggt	ttgggcggag	2520
aggggagctt	ggggtgctgg	aacactctcc	caagggtatg	aaagtttgaaaa	aacgaggac	2580
ccccagagaa	agtattgaca	gggtctcata	ggctgcgat	gtggagactc	ggacgcgtgg	2640
gcctccagggt	ccccgggtcc	cgagttcttt	ctgatataat	tcttcttctc	tcagtgtctg	2700
gagactgtcc	tgggccagga	aatgtacaaa	cttctgctct	ttgatctgct	gactgtcttg	2760
gcagtcgcgc	tgctcatcca	gtttcctaga	aagtgcagagc	cccggccctt	gctgtggccc	2820
cgccccctcta	ggacgaggcc	gtgccccatc	gcgctgttct	tttcaccgag	caccttttta	2880

ccattcccgc	ctctgcctgc	tccctttgct	tgccctaggt	cgcagatct	ccccgctccc	2940
cgcccttggt	ttagtgggtt	acttccctct	ggccccgacg	gcgggacat	ctgggtccct	3000
tctagtcctc	aggaccgcgc	ctctggacac	acccccctcca	cgtggagtcc	tgaaagtccc	3060
gccccccccc	ccccaaccaa	tacgcatgct	tcctattggc	gggcggggcg	gtggaggcgg	3120
ggaaactcca	ggccgccact	cccctgactc	cggccccggc	ccgccccgtc	cttcagggtc	3180
ctctgtggcc	tctgtcctgg	ggcgctgggt	cgtctggcgg	ggaccagga	gttccagggtg	3240
cccgacgagg	tgtctgggct	catctacgcg	cagacggtgg	tctgggtggg	gagttttttc	3300
tgccctttac	tgccctgtct	taacacggtc	aagtctctgc	tgcttttcta	cctgaagaag	3360
gtaaggggta	ggggggaccc	ttgggtctga	ggcaggag	attggggccc	gcactcctgg	3420
gtcaagggca	aggaagatcc	tgggggcctg	gattactcgg	tcctgagaga	ggaggggggtt	3480
ggaggacaga	ctactgcctc	tgagaggagg	ggtctagggc	attctgactt	atatgtctga	3540
ggatctgggg	actcagactc	cggggctcta	gatgaggaag	gggctcagac	tcctgggttcg	3600
gaaaaaagga	gaggcaggta	ggcgggtgc	agtggctcac	gcctgtaatc	ccagcacttc	3660
gggagactaa	ggcgggtgga	tcacctgagg	tcaggagtgtt	gagaccagcc	tggctaacaat	3720
ggcaaaaccc	cgtctctact	aaaaatacaa	aaaaaattag	ccgggcttag	tggcaggcgc	3780
ctgtaatccc	agctactcag	gaggctgagg	caagggaatt	gcttgaacca	gggaggtgaa	3840
ggtcgaagtg	agccaagatc	gtgccactgc	actccagcct	gggcgacaga	gcgagactcc	3900
gtctcaaaaa	gagaaaacaa	acaaacaaca	acaacagcaa	aacaaattag	ccgggagtg	3960
tgggtgcacac	ctgtaatccc	agctactcgg	gaggctgaga	cacgagaata	gcttgaaccc	4020
gggagggggg	gctgcagtga	gagccactgc	actccagcct	gggcgacaga	gcgagactct	4080
gtctcaaaaa	aaaaagcctg	ggcgacagag	cgagactctg	tctcaaaaaa	aaaaaaaaaa	4140
aaaatggagg	cacagactct	tgtgtttcag	agcccttttc	tcctgtcctt	ccccaccag	4200
cttaccctct	tctccacctg	ctccccggt	gccccacct	tccgggcctc	cgcggcgaat	4260
ttcttttttc	ccttgggtct	tctcctgggt	ctggccatct	ccagcgttcc	cctgctttac	4320
agcatcttcc	tgtaatgtcg	agaggctccc	gcctctctcc	ctccctctct	ccccattcag	4380
tgttcagact	cctggcacta	tgtgagccca	gcctgtcttg	acttcaggat	cccgcccttc	4440
aagctttgtg	gtccattccg	ggggcagtcg	tccatctggg	cccagatccc	tgagtctatt	4500
tccagcctcc	ctgagaccac	ccagaatttc	ctcttcttcc	tggggaccca	ggcttttgct	4560
gtgccccctc	tgtgatctc	cagggtgagac	ggcccagact	tctgggtctg	ggtttgaatg	4620
cgtgtgatct	ggggggccacc	actgcgctcc	aagagaggag	aggcttgggc	gtgggagcag	4680
gcaacgtact	gagtctgagg	gaggaggcct	aggctcctgg	actgctgggt	ccgaaggagg	4740
agggtggcgg	gacgtaggac	tcctggatct	gaaggcggag	gggctgggag	actgaactcc	4800
ttgagcccag	acgaggaggg	gcttaggcgt	ccacatccct	ggcttcgaag	gagcagacg	4860
tttgatata	atggaagagc	gtgtcaggag	tggcttccgt	tcctgtctcc	ttcagcatcc	4920
tgatggcgta	cactgtggct	ctggctaact	cctacggacg	cctcatctct	gagctcaaac	4980
gtcagagaca	gacgggtgagc	caggcgggtc	cctgagaggg	cccctgggga	acatggaaag	5040
gggttggggg	agaggattgt	ctcacctcca	cctctctttg	ccccaggagg	cgcagaataa	5100
agtcttctcg	gcacggcgcg	ctgtggcgct	gacctccacc	aaaccggctc	tttgaccccc	5160
gcagcccacg	tcccgccttc	agaccccagg	cccattgtaa	gcctagggtca	caacatctgt	5220
aaactaggag	aactggagaa	gactccacgc	ccttccagct	ttggatatbg	gagatttcca	5280
gggccccctc	ccgccacgtc	ctgactctcg	ggtgatcttc	cttgtatcaa	taaatacagc	5340
cgaggttgct	gagcgcgctt	tgaaa				5365

<210> 1946

<211> 5360

<212> DNA

<213> Homo sapiens

<400> 1946

gtccacgtgc	ggctgcgcca	gcgcatcatc	ttgtacgaat	taaagggtgcg	attagggagc	60
ggggtctgca	actgggtagg	gaccagacag	gaccgggctg	agataacgca	cagggcctaa	120
ctcggtgatg	gggcctccgg	agagatgcta	agcagctcct	tctccaagaa	aggcaggtcc	180
tggggaatga	gaaggttgag	aggaggccga	gatagggtct	cccgactcc	aagcgtgtag	240
gaaaaggatg	cgccagggtc	gggatcggtg	gctaattgctt	gtaacccag	cactttggga	300
gcccagagaca	ggtggatcgc	ttcagtctag	gagttcgaga	ccagcctggg	caacataggg	360
gggctccctc	tctcccaaaa	aaaaaaaaaa	aaagtttgtt	tttttttaag	taagcacaag	420
aagcggggcg	ggcctaaggc	aatttggttc	aaagttaagt	gatgggagcg	gccagcaggg	480

cgtcttgata	cagctgaact	ggaacttcag	gccaggaata	aagcgcaggg	ccacctgggg	540
gcggactctg	atgggcaggg	ctgaccaggg	gcgggtcttg	ggatgctggg	cggactcagg	600
ggcggggcct	gggggtgctg	gattgaccgc	ggagggatggg	gggcttgggt	tgctggatcc	660
ggccgcgaag	gggcggggct	gtaaaggggc	gctggtttcc	tgagcaggt	ggaaccagga	720
ctgcagaggt	tgtagcggg	tggggagacg	gctgcatcag	ttcacgttaa	ggaggatctc	780
tgagagcca	gacctggga	accgggaggc	ccgcgccttg	ggaaatggag	tccaagcggg	840
catctctcct	gccttcaggt	ggagctggag	gagacagtgg	tgccggcgcca	ggctgcggtg	900
cggacgctgg	gccagcaagc	cagggtttgg	ttgggtgcggg	tgctgctcaa	cctgctgggtg	960
gtcgcgctcc	tgggggcagc	cttctatggc	gtctactggg	ctacgggggtg	caccgtggag	1020
ctgcaggtgc	ggacggtcct	ggaagaggaa	gccgggggt	cctggaacct	acatttccaa	1080
cgggtggagg	aggggacgga	agtttgggat	gccagagatc	ttagagagga	agtatgggag	1140
agggtatgtt	cggacccttg	acttagggat	tttaaaggaa	aaagagaggc	tgggcgcggt	1200
ggcttacacc	tgtaatccca	gcactttggg	aggctgaggc	gggcggatca	cgatgtcagg	1260
agttccagac	cagcctgacc	aacatgggtg	aaaacagtct	ctactaaaaa	tacaaaaatt	1320
agacgggctg	ggtggtgggc	gcctgtaatc	ccagctactc	aggaggctga	ggcaggagaa	1380
tcacttgaac	ccgggaggca	gaggttgtag	cgagccgaga	tcgcaccgct	gcattctagg	1440
ctgggtaaca	gagcgagact	ctgtctcaaa	aaaaaaaaaa	aagaagaaga	agaagaagag	1500
gccgggggga	ggaccttaag	cttggctcct	ccaggacccc	aagcctctac	tcatggtcca	1560
tcccgcctcc	aggagatgcc	ccttgtccag	gagttgccac	tgctgaagct	tggggtgaat	1620
taccttccgt	ccactttcat	cgctggggct	aattttgtgc	tgccgcccgt	gttcaagctc	1680
attgtccac	tgagggcta	cactcggagt	cgccagatcg	tttttatcct	gctcaggttc	1740
cagcctcacg	gggatggctg	ggaatgatga	agggtggggg	cggtcagagg	gatgttggcg	1800
ctgacaggta	agacacggaa	atcctgctga	taccgaatcc	agggattcaa	atcctgactc	1860
tggtggccag	gtgcagtggc	tcacacctgt	aatcccagca	ctttgggagg	ccgaggctga	1920
ggtcaggagt	tcgagaccag	cctgacaaaac	atgatgaaac	cccgtctgta	gtaaaaatac	1980
gaatattagc	ccggcggtag	tggttctctg	agtcccagct	actcgggagg	ctgaggcagg	2040
agaatggctc	gagcctggga	ggtggagggt	gcagtgaagt	gagatcgcg	caagcactc	2100
cagtccgggt	gacagagtga	gacctgtct	caaaaaaaaaa	aaaaaaaaaa	gaaagaaaga	2160
aagaaagaaa	tcctgattct	gtcactgggc	ctcagcttca	tctgtgagat	gggttgaatg	2220
cgggcgcggt	ccactgagaa	gggaactgcc	acatggtggg	taccgggtca	gggccattc	2280
tctgccttcc	ccccttcagg	accgtgtttc	ttgcctcgc	ctccctgggtg	gtcctgctct	2340
tctctctctg	gaatcagatc	acttgtgggg	gcgactccga	ggctgaggac	tgcaaaacct	2400
gtggctacaa	ttacaaacaa	cttccgggtg	gaacggcatg	ggtgtgcgtg	ggactcttgg	2460
gtccctgaag	gaaagatgga	gctgggtggg	tccagactct	tggtttggg	ggagagggga	2520
gcttgggggtg	ctggaacact	ctcccaaggg	tatgaaagt	tgaaaaacga	ggacccccag	2580
agaaagtatt	gacagggctc	cataggtctg	cgatgtggag	actcggacgc	gtgggcctcc	2640
agggtgcccgg	gtcccagagt	ctttctgata	tatttcttcc	ttcttcagt	ctgggagact	2700
gtcctggggcc	aggaaatgta	caaacttctg	ctctttgatc	tgctgactgt	cttggcagtc	2760
gcgctgctca	tccagtttcc	tagaaaagtga	gagccccgcc	ccttgctgtg	gccccgcccc	2820
tctaggacga	ggccgtgccc	catcgcgctg	ttcttttcac	cgcgcacctt	tttaccattc	2880
ccgcctctgc	ctgctccctt	tgcttgccct	aggtccgcag	atccccgc	tccccgcctt	2940
tggttttagtg	ggttacttcc	ctctggcccc	gacggcgcg	acatctgggt	cccttctagt	3000
cctcaggacc	cgccctctgg	acacaccccc	tccacgtgga	gtcctgaaag	tcccgcctcc	3060
ccccccccac	caccaatacg	catgcttcc	attggcgggc	ggggcggtgg	aggcgtggaa	3120
atccaggccg	ccactccctt	gactccggcc	cgccccgcc	cgctctcag	gctcctctgt	3180
ggcctctgtc	ctggggcgct	gggtcgtctg	gcggggaccc	aagagttcca	ggtgcccagc	3240
gaggtgctgg	ggctcatcta	cgcgcagacg	gtggtctggg	tggggagttt	tttctgcctt	3300
ttactgcccc	tgcttaacac	ggtcaagttc	ctgctgctt	tctacctgaa	gaaggtaagg	3360
ggtagggggg	acccttgggt	ctgaggcagg	aggtattggg	gcccgcactc	ctgggtcaag	3420
ggcaagggaag	atcctggggg	cctggattac	tcggtcctga	gagaggaggg	ggttgaggga	3480
cagactactg	catctgagag	gaggggtcta	gggcattctg	acttatatgt	ctgaggatct	3540
gggactcag	actccggggg	cctagatgag	gaaggggctc	agactcctgg	ttcggaaaaa	3600
aggagaggca	ggtaggccgg	gtgcagtcgt	cacgcctgta	atcccagcac	ttcgggagac	3660
taaggcgggt	ggatcacctg	aggtcaggag	tttgagacca	gcctggctaa	catggcaaaa	3720
ccccgtctct	actaaaaata	caaaaaaaat	tggccgggct	tagtggcagg	cgctgtaat	3780
cccagctact	caggaggctg	aggcagggga	attgcttgaa	ccaggagggt	gaaggtcgaa	3840
gtgagccaag	atcgtgccac	tgactccag	cctgggcgac	agagcgagac	tccgtctcaa	3900

aaagagaaaa	caaacaaaca	acaacaacag	caaaacaaat	tagccgggag	tggtgggtgca	960
cacctgtaat	cccagctact	cgggaggctg	agacacgaga	atagcttgaa	cccgggaggg	4020
gaggctgcag	tgagagccac	tgcaactccag	cctgggcgac	agagcgagac	tctgtctcaa	4080
aaaaaaaaagc	ctgggcgaca	gagcgagact	ctgtctcaaa	aaaaaaaaaa	aaaaaaaaatg	4140
gaggcacaga	ctcttgtgtt	tcagagmct	tttctccgtg	ccttccccca	ccagcttacc	4200
ctcttctcca	cctgctcccc	ggctgcccgc	accttccggg	cctccgcggc	gaatttcttt	4260
ttcccccttg	tccttctcct	gggtctggcc	atctccagcg	ttccccctgct	ttacagcatc	4320
ttcctgtaag	tgcgagaggc	tcccgcctct	ctccctccct	ctctccccat	tcagtgtta	4380
gactcctggc	actatgtgag	cccagcctgt	cttgacttca	ggatcccgcc	ttctaagctg	4440
tgtggtccat	tccgggggca	gtcgtccatc	tgggcccaga	tccctgagtc	tatttccagc	4500
ctccctgaga	ccaccagaa	tttctcttc	ttcctgggga	cccaggcttt	tgctgtgcc	4560
cttctgtgta	tctccagggtg	agacggccca	gacttctggg	tctgggtttg	aatgcgtgtg	4620
atctgggggc	caccacctgc	gtccaagaga	ggagaggctt	gggcgtggga	gcaggcaacg	4680
tactgagtct	gagggaggag	gcctaggctc	ctggactgct	gggtccgaag	gaggaggtgg	4740
gcgggacgta	ggactcctgg	atctgaaggc	ggaggggctg	ggagactgaa	ctcttgagc	4800
ccagacgagg	aggggcttag	gcgtccacat	ccctggcttc	gaaggagcca	gacgtttgga	4860
tataatggaa	gagcgtgtca	ggagtggctt	ccgttcctgt	ctccttcagc	atcctgatgg	4920
cgtacactgt	ggctctggct	aactcctacg	gacgcctcat	ctctgagctc	aaacgtcaga	4980
gagagacggt	gagccaggcg	ggctccctgag	agggcccctg	gggaacatgg	aaaggggttg	5040
gggaagagga	ttgtctcacc	tccacctctc	tttgcccag	gaggcgcgaga	ataaagtctt	5100
cctggcacgg	cgcgctgtgg	cgtgacctc	caccaaaccg	gctctttgac	ccccgcagcc	5160
cacgtcccgc	tttcagaccc	caggccatt	gtaagcctag	gtcacaaat	ctgtaaaacta	5220
ggagaactgg	agaagactcc	acgcccttcc	agctttggta	tctggagatt	tccagggccc	5280
ctcgcgcgca	cgtccctgac	tctcgggtga	tcttcttgt	atcaataaat	acagccgagg	5340
ttgctgagcg	cgctttgaaa					5360

<210> 1947

<211> 22001

<212> DNA

<213> Homo sapiens

<400> 1947

ggaagtgc	aa	agaggcgggc	gtgccagtc	ctggacagct	acgacgccat	gaatatcttg	60
cccaagaaga		gctggcacgt	ccggaacaag	gacaatgtcg	cccgcgtgcg	gcgtgacgag	120
gcccaggccc		gggaggagga	gaaggagcgt	gagcggagg	tggtgctggc	tcagcaagag	180
gtaagctcgg		aagccggcag	ggcggcgctc	cggggcccag	cgcgcaggcg	ccgcggttg	240
gggccgggaag		cggaggcggt	gcgcaggctc	aatgtgcccc	gtgtgaaatt	cggaaccagg	300
cgccgatccc		actttcgagg	acgttgcccc	gcaaaccctg	tgccacttc	cacgaaacct	360
tccttgatct		cgccctcgtc	ttagtttttc	ccccactgat	gtatttcaca	tggtggaac	420
agtgtctagc		acaaaagaga	agcttaacat	ttaatgaatc	cgtgaaccct	tggaagttc	480
aaggaaattc		ggatcacttt	ttagttttgc	tgcaacagct	atattattgag	catctactgt	540
atgctaacta		catgccgtgc	acctgacttg	cggaaatccc	aataagcact	gttcgttctt	600
agaggggac		tgtcatctct	gttgacgaa	gtgagatggc	ttcagtggag	ggaaggcaca	660
ttttaaggag		aggcgacag	ccaggctcca	cgccatcggg	cgagcccttt	cgtgcaccgc	720
cccctagaca		catacacaca	aacacgggct	ttccgtatgg	ctctttaaat	ctgtttgggtg	780
tacaccaaac		tttcattttc	ttagctagtc	tgatcctccg	ccgtgggtgg	gaggtagtct	840
aggttttttag		aatctcagta	ggctgctgag	cgtgttttga	aatccgcgtc	ctgaaggcag	900
gggacagggc		ttcagcagac	ttggggtagt	cacttgagagc	catggctaga	attcagatcg	960
tctggcctaa		tgcatacctt	tatggctgtt	ttaattgtct	cacttgagggt	taggaacccc	1020
tttggttttag		gccagggacc	tcctcccata	catccttgat	gaccogtgg	ttactatttg	1080
aaagggagtt		tacaaaacc	aggcgttgcc	tatcttgcc	acctcacc	ccagctagga	1140
caggtgcctc		ttttaggcgc	ctagtgtctc	ctttctcata	acccagcac	cctggactgc	1200
cattttctgt		ggtgggcacc	agactcacag	ttcttgaatt	acctctaggt	tctgaatgtc	1260
ctgcctataa		ctttctcccc	aggcccgtag	agaattccta	cggaagaaag	ccagacatca	1320
gaactcactg		cctgagcttg	aagcagcaga	ggcgggagcc	ccaggttctg	gccctgtgga	1380
cctgtttcgg		gagctgctgg	aggaaggaa	aggagtgtac	agaggcaata	aagagtacga	1440
ggaagaaaaag		cgacaggaga	aagtaagctg	gcctcacc	cttcatcaga	ggggccatga	1500

atcgagttgg	agggaggggg	cacttttagcc	attggttgtg	accaaggtca	aacaagagtg	1560
aacacacaga	atttaggacc	ataccaaggc	atgacactca	aaaagcggtg	gctattgmg	1620
tctggggccc	cacaggggtt	ggaggtagat	gctagaggtc	cccagctgct	gggcaaaccg	1680
ctcagttctc	caaactggag	gagtctcaaa	cctgatgggc	ttttaaaaaat	ttaaatacagc	1740
cggctgtggc	tcacgcctgt	aatcccacca	ccttggggagg	ctgaggcggg	tggatcacct	1800
gaggtcagga	gttcaagacc	agcctggtea	acatggatc	tctaaaaata	caaaaaaaat	1860
tagccgggca	tgggtggtgcg	cgcctgtaat	cccagggaag	ctgaagcagg	agaatcgctt	1920
gaccagagg	gtggaagctg	cagtaagccg	agattgcgcc	actgcactcc	agcctgggtg	1980
acagagcgag	accccatctc	aaaacaatca	aacaaaaagt	gaatcaatcg	ctcttgctt	2040
tttggttaag	atcaagtgt	aaaggtacat	cagtggctgt	gcatgggtggc	tcacgcctgt	2100
aatcccagca	ctttggggagg	ccaacgtggg	tggatcacct	gaggtcagaa	gttcaagacc	2160
agcttggtcca	aacatggcaa	aaccccgctc	ctactaaaaa	tacaaaaatt	agctgggcat	2220
ggtggtgtgt	gcctgtaatc	ccagctactc	ggggggctga	ggtaggagga	ttgcttgaac	2280
ctgggaagca	gaggttgtag	tgagccgaga	tcgtgccact	gcactcgagt	ctgggcaaca	2340
gagcgagact	ccatctcaaa	aaaaagaggt	acatcagctc	ttgtcattta	tctgctgtct	2400
ctggacttgc	tgaccccacc	catcgctcct	ctgctttgct	tgatccctc	aggttctct	2460
tcaagtctct	ctgcaaagat	gcctgcctct	gaacactcaa	gtggctccac	ttgtcccctc	2520
cttcccctgc	tgttactgta	cctgctactg	tccccccagg	gggagctttg	cctctgtttg	2580
tcttccatct	ccagcacctg	gtccaactgg	gtcctaacaa	gccttagata	cctgttgcgt	2640
tagatacatc	tgtcaggag	acacacctga	caccttgaaa	gattatatca	catctcttgt	2700
atttctctggc	cccctcagga	gaggcaagag	aaagctctgg	gcacctcgac	atacctgggc	2760
cagagtgcag	cggaggcaca	gactcaaccc	ccttgggtacc	agctaccccc	agggcgaggg	2820
ggccccccgc	ccggcccagc	cccagatgag	aagatcaaga	gcgtctgga	ccctctgcgg	2880
gagatgcaga	agcatctggg	gaagaagaga	cagcacggcg	gtgatgaagg	cagtcgcagc	2940
agaaaggaaa	aggaggggtc	tgagaagcag	cgacccaagg	agtaagaaga	ccccacctcg	3000
gcagaccagg	gcccagacct	tcagggcttg	gcagcagccc	agcatgggca	ctgcagcgtc	3060
tctggtcagg	acagccaggg	actccgtgaa	gggtgggcta	ggtggagaag	tggttctcag	3120
catgtggtcc	agggagccct	aggggtcctg	acacccttct	ccggggtgct	gtggtgtcaa	3180
gcctattttc	ctgacactgg	tggacttttc	cactcgtgtt	ctcaggcatg	tagtgcaggt	3240
ttccagaggc	tgtgtgatgg	ggagacaccc	tactcgat	ggccaatggc	agatgcttgt	3300
gtccaaactt	tcttagtttt	cactaatgat	ttgcagcata	ttaagagaac	ccatttaaac	3360
aaaagctctt	ggggctcctg	gtttttaaga	gtataaaggg	gtcctgagac	caaagagttt	3420
gagagctgct	gggttagaga	gtaaaagcag	gcttctgtct	ccaggatgct	gcacccctgg	3480
tctagagggg	gtacactgcc	tgtagtcttc	tttctctag	aaagggaac	tgagggccag	3540
ggggctgcta	agtgtgcttt	cttgacctgg	agaagcatca	gatttttaaag	actggggagg	3600
accaaagccc	acagaaggga	aggccagaga	cgtgcccatg	gcgtcccagc	accaagtggc	3660
tgcttccagc	aggcctaagg	agctgaggct	gggtgtgtct	ggatgcagcg	gggcttccag	3720
gcggcagctc	cctctatggg	agaggttggg	ggaatggcct	cctaggggct	accagctttc	3780
tgacctcact	cctctcccca	caggcctcca	tccctggacc	agcttcgagc	tgaacgtctg	3840
cggaggggaag	cagctgagag	gtctcgggca	gaggccctgc	tggcccgggt	ccaaggccgg	3900
gcactacagg	agggtcagcc	ggaagaagac	gagacggatg	accggcggcg	gcggtacaac	3960
tcccaattca	acccccagct	ggcccggcgc	ccccgcagc	aggacctca	ccttactcac	4020
tgactcctga	gggggtacag	gagaggccgc	tgtgccagc	cgtcatataa	aactatttat	4080
tcataaatat	tttccaaaat	gaaaataggt	ttaccaaaaa	atgtccctca	ctggggaggg	4140
gaggaggggg	cagccctcgc	ccccgggccc	ccaggggtggg	gctgagagga	aaacctcccg	4200
gccccctccc	tgttctctgg	gagaggggga	tgccccgtgg	cctggggcct	ccctccagtc	4260
ttccagggca	gggcccctcac	ctgggcaggg	ggatcagcat	gcgggggaag	ggggtggtg	4320
gagggagggg	ccggtgtcac	tggaggtccc	ggtcctccag	gtagcggtac	tcaaagggtg	4380
agccttccct	cttccgctgg	ccccacttct	cgtagtcaaa	gtagatgtag	gtgccctggc	4440
cgggggagaa	ggcggtcagt	gagtggaaga	ggaggtgggtc	tgggatctgg	gccggaccaaa	4500
cagacaaagg	ggacaattct	tagggctgtg	gatgtgtcag	gcaccggggc	agctgccctg	4560
cacgcacaca	ctctcatcca	tcctcacaag	gttcttcttg	ggtaggaaat	gttatcatgc	4620
cacttcagcg	aggaggaaac	ggagggggcc	gcagaggttc	caccgaagcc	agctgccaga	4680
acggggcccc	agccccaggt	gtgagtgcac	agccttcggt	tcctcgagggt	ctgtggcttt	4740
tgagcacctc	tcacgtgagt	acaggatgca	cagcctagca	tttaatcttc	acaaagacct	4800
cgaggcagtg	ggtactgtca	cccttgttct	agagaatgga	acagtctcag	agtctaaatc	4860
caagcactct	gcagggacat	tttattgggtg	acggaagtgg	tgtgggaatt	tctgaatgac	4920

tggaatgccct	gaaatgtact	aacttggagg	atggtttttgg	gccaaaccag	gaaaggacag	4980
gaagtctgtg	gttaacatct	gaggacacaa	tgggagagga	cctaggttct	aaatgaatgt	5040
cttaagtgtc	tcaaagatgg	caacctggga	gaaccaggag	aggggactga	gttctctgag	5100
gacaaggacc	ttgtactact	tcacccccat	gaaggggctc	ggcataggg	aagtatttgg	5160
tggaaaaaaa	catcactgta	gaacacacca	actgaaagta	atttgaaaaa	aaaaatccat	5220
gacactgact	atgtagcagt	caccattaag	tacttacatg	ttattaactc	atttaatctt	5280
cataacaact	gcattaggtg	ggtgggtctt	cccccatttt	tacagataag	ttaattgaga	5340
cacagagggt	cgagtgactt	gcctagagtc	gcccagctgg	actgggctga	aaccaggtg	5400
ggttgggttc	agagtgtttg	caagcagcag	gaatttccca	gtattagaac	ttgagaagcc	5460
cattcaaaaa	aaatagtttc	ggcactgagc	ccctgccctg	ctgagtgtct	ggacctggag	5520
gtgaagtggg	ggccatcaag	gtccctcggc	agcagagccc	acagcctggt	gcagggacac	5580
atactgggaa	atccccacac	cccaagcgag	tgtgccagc	actgcaaagg	ggaggcactg	5640
ggctgggtgg	ctccaggaag	gtttcttttg	ggaaggggaca	tttgggctga	gacctacagg	5700
aggcctagga	gctggccaag	tggaggatga	gagggcggtg	ttccaggctg	agcagacagc	5760
cagagggagg	agtacttggg	caggctgagg	gactgcgcca	gctgaaaggt	ggaggcaagg	5820
gagcagaggc	cagcaggggc	tgcctggagc	ctggggactc	tacccaacc	ctagcagcgg	5880
gaagagaggg	ggcggggccc	tcacctgctc	aaactcgtca	gtgatggctc	tgggctcctc	5940
gtgcctctgg	aaccacatca	tgtacttggg	gtgcatcgc	catgactgct	tcttttagggc	6000
cttgggtgcc	agatactgtg	ccttagtgcc	ctgggggagg	aacagtggag	agggggatca	6060
ggggccccc	aaactgggtg	gggagccagg	ggaatggggc	aggacatcag	ggctgaaccc	6120
cggcccccgc	cacagaccac	agttgggctg	gacaatcctc	ttggagatgg	ggctgggggc	6180
acagaacata	ccaatgctga	tcaggagaag	gaaaatgaga	caggaggtga	aaattgcttt	6240
cagagaagct	ttgagaagga	agaaaaacta	atgtgtgatg	agagctgaga	gaggaggcaa	6300
tttagaaaat	ttcccaagtg	gggatgaggg	tggaggtcac	tcatgactca	ctgggggttg	6360
gagggggctg	gacagctccc	cagtgtctc	cagggaggcc	tgagaatgtg	ccgatgagca	6420
gagtggggct	ggcctagact	ggggctgctg	gagcagggct	ggggaggggc	cgcgggtgag	6480
ccagtgggca	actggaagcg	gggctgaggt	gtgcctcagt	ggaccagcct	cgctgtcaac	6540
ccaagcagtt	ctaacatctc	tgggctggaa	ggcggggacg	gggacaggtg	gatttggggc	6600
agggggccag	gagtgggaat	agggaggggg	tgcggtccca	gtggccgcag	tggggcacc	6660
acctcacc	tccagcccga	ggggggacgg	cggcggtggc	ggcgaagccg	ggggggccga	6720
ggctgccccg	ggggccctgc	tgtacctcca	gatagtagaa	gatgaagaag	agtgtctcgg	6780
tcgacaggcg	ctggtagaat	tcacagtgt	ccgagtgtgg	gggtggcatc	tgggtggtgg	6840
aggggggctg	cggacagggg	ttccggggga	ggtactggct	gtgagagcaa	caggaaggct	6900
agtgccagct	gcctactagt	cctgtcgtga	tcaaaagggg	gctcagacat	gcatccctgc	6960
ggggggaggt	ggtacagaaa	gacctagggc	ggtgctgacc	ttcagtggag	agccaagtc	7020
agggggcctg	tgtcttacc	acagcctcac	aggttcagcc	actgcctcct	ccgtaagact	7080
caagtcccag	accatcccc	ttccctgtgg	cccctcaccg	aatacgtca	gagtcagagg	7140
ggtgaggcat	gtggtgccag	gcggcctctt	ccatggcctg	ctgatagagc	tgtccttgg	7200
tgaggggac	agggcccagt	ggacagacac	ccagcgacag	cggtatgttc	acctctgaca	7260
gctgcagggg	cggctgggct	gagggccggag	gtgctgatgt	actgctcagg	atgatgtctg	7320
tggggagggg	gggggtccgg	ccccctcagt	ggtgaggatg	ggtcaggggc	agccccctct	7380
ctttggcccc	ctgcttcccc	accatcctgg	gtccctcacc	tcgctcggc	aggtgcagcg	7440
ttggcacagg	gtcctcaatg	ccagagctga	tggctgccc	ttccgccatg	gacttcaagg	7500
agctcagagg	ctcaggggccc	tggggaggaa	acaagaggcc	tggcctgagc	acttgggctg	7560
caggagcaag	tgcagcctga	cacaggcccc	agatgctctc	acctgccctg	tttggggggc	7620
gtggagggcc	aacgacccac	tccccaaat	ctaccatga	caggtaaaaag	catcaaactg	7680
tagggaaaaca	atcgagagcc	acgacgcatt	catcagcaga	ggaacgtctc	gtgagtggga	7740
ctctgcagca	tgggaatacta	cgccgagatt	ttcaaaatac	aagttcgtga	catactacag	7800
aagtaaacgc	caacctgcag	aatatgtaca	gtgcgctacc	attttgtca	aaggatgtgc	7860
caatagtaca	cgctccttca	ctagggacac	ctacacgctg	ggagagctcc	cgcctgtctt	7920
gaaggaggca	ggaggtctac	atgctcagct	gtctgcctgt	gactggcatg	gggtgactgg	7980
aatccgggtg	ggcccagccc	ggctaggctt	cagctctcct	gctggaaaca	ggtaggttgg	8040
gtctccagcc	cgcagccac	agcctcgttt	cctattacaa	aggttacagc	aggcttctgt	8100
tccccaaagt	cagggctggg	tcctcccatc	tcctccagcc	acgtgcagct	gtcccaaacc	8160
ccagccctgt	gctggactct	ccacaacgag	tcagtcgcca	aggcttatcc	attctgtctc	8220
gctatatcgc	ccaggcaggt	ctcaaaactcc	tgggctcag	ctatcctccc	gcctctgcct	8280
ccctaagagc	tgggattaca	ggtgtgagcc	accacgcccc	gctatccgtc	ctgcttctaa	8340

acccccactgg	atgggtccct	tccctgtcgt	gccaccatgt	cccacacagc	ccaggcctgt	8400
cctctcctgc	ccagaccacc	ctccctctat	cctgtcctca	ccagccccag	gggaccttct	8460
caatgaagtc	atgttggtcc	ttctctactc	caaaccttgc	catggttccc	gaccaccac	8520
cccagcgatt	catttttgtt	gttggtggtg	ttaaaagata	tggacccctt	ctgaaaatct	8580
caaagctgct	gtttcccttt	ttccagaaaa	atgcacgcac	tataaatatc	ctgtccacct	8640
acttctaata	tttgggccgg	gcacggtggc	tacacctgt	aatcccagca	ctttgggagg	8700
tcgaggtggg	tggatcacct	gaggttcgga	gttcaagacc	tgctgacca	acatggcaaa	8760
accccatctc	tattaaaaat	ataaaaaatta	gcctggcgtg	gtggcaggcg	cctgtaatcc	8820
cagctactca	gtaggctgcg	gcaggagaat	cgcttgaacc	caggaggcgg	atgttgcat	8880
cagctgagat	tgcaccactg	cactccagcc	tgggtgacag	agcaagactc	tgtctcaaaa	8940
aagaaaaaaa	aaaaaaatta	atgcttctgt	tgggccagaa	actgttccaa	gagctttatg	9000
aggtgatttt	agtcttccaa	ataaccctac	atagtaggta	taatcgtgac	tattgccgtt	9060
ttccagatga	aggcacagaa	ccaggctcag	caagacttgg	acctggacag	cctggggcgg	9120
caactgcct	cctggacagc	ctgggcgcgc	acactgcctc	ctggacagcc	tgggcataca	9180
cactggtccc	cccatggaag	ctgcgctaca	gtatactggc	tcacaagcca	agccccagct	9240
cctgaccctc	gatgatcagg	acccaccctg	cctatcctgc	tacaccact	atctcagcc	9300
tgcagctggt	ggcactgtct	cctgcagagt	ggacacctct	ctcctctctg	ctgcatcctg	9360
cccagcttcc	taagcacaca	ggcagatgca	tgtctcctct	aaagcacctc	ctgaagccct	9420
tcttgacgt	gttagccccc	ctgcctggtc	caggtctcag	cttaaacatc	acccctctc	9480
agaccttctc	gggctgtct	ccaggctcag	gtcagatgcc	cctcgtggg	cccaccgcaa	9540
ccttccctgc	agctgcccc	gcagggaagc	ttcctaaagg	gtggaaccag	gctgcattca	9600
cccaaccagt	ctttctactt	gtgcagaaag	tacaccagtc	tatgccttgt	gaggacaaac	9660
ggggacagaa	actgaggggc	tgcggggggg	atgaagatgg	agaccagag	aggcaagca	9720
acaagtgcaa	ccaagagaaa	ggaaaagaga	cccagagaaa	cagagctttg	gagggaacaa	9780
gagaggaggt	atgagagccc	ccagagatca	aggtcacggg	gaggggtggt	cagaaagacc	9840
tggagaaaga	gcaagtgtga	gaaggggaca	gaaagccaga	gaaagagatc	cagaaagagg	9900
gtgggggcag	ggggtgcagc	tagagacctg	gaggaaagaa	acaacagagt	caggacacag	9960
aggctcgggg	gatgtccgag	gagcccacct	tgatattctg	ggcgggtgct	aactgtggag	10020
gcccattgag	cagggcaccg	gctgccttgg	catcactgaa	gctggggcgt	ggggagctgg	10080
gaggattcac	aggcagtggc	accaggaggc	tgggtccccc	tgagttgtc	cctgagcctg	10140
gggccacgcc	cccagccccc	gttggggctg	ccgcactggg	ttccttccct	gagagagagc	10200
atggaagagg	gggttgagag	gaggttccct	gaggggtgga	tgggcagaga	ggcctggctg	10260
gagagagggg	agactgcaca	gatcagatgg	gatctgagag	gggcaggtga	gggcagacag	10320
atgggagaaa	gaagtgggtc	tctggggcaa	caaaggcaga	gcccattctt	tgggaatggt	10380
tctcatcagc	agagcagagc	tgtgggggtg	ggggtgagga	ttctcgggtg	ctccaccagg	10440
ccacaggctg	atcaaaaacca	cttgccctgg	gcaggtgttc	acaggggcca	ctcccccttg	10500
ggcaggccag	ctggagctgg	ggtgaggggg	caggaagcag	gctttcctt	tgtgcacact	10560
gatctttctt	agggcattct	tcgggaaaca	ggcagaccca	gtggaatggt	ctgagctaag	10620
atgtgaagga	gtggctgcag	aggaataagg	acttcgggac	aattcacttt	gaaaagtga	10680
acagtgaccc	tccggtggca	gtcaattggc	ctcaggcagg	taacagaaat	ggggaggaaa	10740
gggtatgggg	ctcttgagaa	aacttccact	tagatgagaa	cgtatttttag	aatgttctga	10800
agggcaaagc	agggaggctg	atgtagtttc	cttgctggaa	agaagtgggg	gtgtaacacc	10860
cgaggggagat	ggaggatagc	gcttgcccat	tcccagcagc	aagggcgggg	ggttcagaac	10920
ccaccgatgc	gggggtgagg	cgctgcgcc	tctctcttc	aaaaggctgc	catcccaacc	10980
ctgccgatgg	ccgagacact	cacgaggtgc	tgggaggtgg	gttgtggggg	ccggaagggg	11040
ggcccaaggc	ctggctgctg	gcattgttgc	ccccactgct	gctcaaagcc	acctctgccg	11100
ggctgtctgc	cacaactgag	ctgtaacctg	ggaacaaaga	gtaaatggaa	agggctgctg	11160
cctgctgccc	agccccgccc	acgcccccca	ccccgctgcc	tcctcactca	ctgggtggcg	11220
cattctgctt	gccagccctt	ccaccggcac	tgtgtgtact	actgctgctg	ctccctccac	11280
ctccgctgcc	gccgcctccg	cctccgctag	gctggacgct	ggggggccgg	ggctgggtcg	11340
tgttgggccc	actgggagct	ggtggggcca	cagcctgggc	ataggggagca	ggggtgcccg	11400
agttgtggct	gggagctgga	ctggccttgg	ggcccagggc	acttgggggt	gctgcggggg	11460
cggggacccc	attgttgcca	ggagtgtgac	tcaaggcaga	ggcagcaggc	ggggggccgg	11520
aggggtagggt	gggcggcaca	gctggggact	gaggggtgct	gttgctgtgg	acaggcttgg	11580
agccgttttt	ggctggagac	tgcgggtggg	agagagcaga	gggtcaggac	ccagtgggcc	11640
agctgggtct	cctcaccacc	cccacctcag	gctccatctt	tgtcccagca	gcctcctctc	11700
tggcctcgct	gccccacact	gctcctgccc	tcttggggac	ctgggtgacc	ttactcacc	11760

tcatggettc	aatcaccttc	atgcttaaaa	cactcacact	gatttccagc	ctgcccagct	11820
tcccaagtcc	tgccctggaca	ccgccccatg	gacaccccca	cagggatctg	acacacaact	11880
taggtttgtca	gccagagaag	atccatctgt	tggaagccag	aggactagtg	ggaaacactt	11940
aagtgttctc	aatatgagat	tagctggagc	cgcctaattgt	ccaagagtag	aaggamaac	12000
agctggaaat	tggaatagtaa	ttctgaatgt	cacctgaagg	gtcacagaag	ctactcacag	12060
ggctggaagt	taccagcact	ccagaaaagt	gtgggaagggt	aaatgtgctc	atgggtatccc	12120
taccgcaggc	aatctgtgga	cagcaactccg	gctgctgagc	ctaaccacct	cctgggcttc	12180
tttccagcca	ccccacaggc	accttgcgct	taccaagcgc	ccaacaggac	tgactaccca	12240
cttctctcct	gggcacgcgt	gcttggcagt	gggggcctgg	gaaggtggca	gagcccagcc	12300
tggccccctg	agtacctgcc	tcagtgtctc	tcctcatcac	ctcctggccc	tggtgcccgc	12360
cctcactact	acctgcgggt	ccccttagtc	tccacaccag	cctcctcaatg	cccactcag	12420
ggtgtcccct	tggaaccatc	catcccgtta	gcccacagag	gggcctcagg	cccatgtctg	12480
ttcctccctaa	cattgttctg	tagcagcggt	tccgaaagcg	tgctcctgtc	ctgggagatg	12540
ttaaaggagt	tgaagaagca	ctgcccgcga	ccgtctcctc	tcagaaatct	gcagtgtgta	12600
ttatcagcac	agcaaaggcc	ccatcgcttc	ctaggcttat	tggactctgg	aggccactca	12660
ggtccacaaa	gcctgagccc	ctcagcctga	cagtcccagt	ccctgtgctc	acagttgggc	12720
ccctggccct	gcagacctgg	ccagactcat	ctctcctcac	ttccaaactt	tctgtcacia	12780
cttgcccctg	ttactggctg	ccacctctcc	ctgccaggca	aactacctg	actgtgaagc	12840
ccagggcact	ccacagcagc	atctcctgac	tgccctggca	ggccaagggt	gacctgtgtg	12900
ctaccccctt	gaccacagca	ccagtcacct	gtccacttgc	cctgcccacc	tgccctcagg	12960
gcagcactga	tttctgagcc	acctgtgtcc	accagcccag	cacagtggcc	ggcgctcagg	13020
cctcaagatg	cctttgggaa	gcaacagagg	agtgaatggc	gtgcccaccc	ggtccaggct	13080
cacacccacc	tggctgactt	cactgtctgt	ggaacgtccc	ctctctttat	catcttcaga	13140
gttttctctga	ggtagggggag	gcagaataga	aacctgtgtg	acctctgggg	ctctgatgga	13200
gaaccgccaa	tctctgaatg	ccccggggac	ctggggccaa	ttgactgcca	ttgcgggccc	13260
agagtgtgtc	aaatggctgt	ccttaatctg	ctggagaaa	ccatctcaat	tcaggctctc	13320
cagtcttctt	gttttctggg	agccagcact	gaccacccag	cctcttaagg	atctgggaac	13380
ctgctctcca	cagggaagcc	aacctttgga	tccttgccca	aggtggccag	ctaccagacc	13440
tcctcaggca	gcccaggcac	cgccccctcc	cacttcccag	atccaggacc	taaactggcg	13500
cgggatgcac	cctattgctc	tttatgtcct	ttagggaccc	agatatagga	ccttagcggt	13560
tgctccaaga	gcctagaccc	tggtacacta	gatctgtgtt	tcctcaatta	cgctcccata	13620
gccacttttg	agtgacccag	atttgtctcc	tcggtctctg	ccctgctgga	aacacaaggt	13680
actagtgtcc	cgtggggcct	caccgtggta	cagttggctg	ggctgggcgg	gatgggagag	13740
ctggaggtgg	ttgaggtggg	cgtgctgctg	gactggttga	agatctcatc	ctccatgtgg	13800
ctgtggctgg	gaggggaggt	ggcgaccagc	gcctgtgctg	tgggggcaga	agaagggcat	13860
gcttagctgg	ctcacacagc	ccattctggg	ccctcacttc	ctgtgccacg	atcagcccca	13920
gggcctcacg	aatgtcctcg	aggtccaggt	catcgtagag	aaactcgctc	tcctcgaagt	13980
cggggtcctg	ggatgagtea	acatagtact	caacgtcgtc	cttgatcttg	cggatggcgt	14040
caacgaggat	ggagtcatgt	tccagcatg	gcaggatggt	ctctagcatg	cgcacgtggt	14100
agcgggtgctt	ctcgatgtgc	cgcttcaagc	cctcaatccg	gtcctgcttc	tgctggcgag	14160
cccagggccca	ggctcagggg	ctgcagagca	cctgcttggc	ccctcctgcc	cccacagaac	14220
ctgtcctcag	tccttgaccc	ctgtggagac	ccaaagcctc	cacgccatcc	ccttcgggggt	14280
ggggcagtat	ggggtccacc	caccctctga	gcctgtggg	gaccaatctt	agccttgaca	14340
tcttgggatc	ccactgtctc	ctcctctccc	cacaccttcc	tggctccagg	agtccttgga	14400
aacctctaaa	agacccagag	gtccttgtgc	catcccacga	cttggcctcc	atctgcacct	14460
cacctgacag	cccagatttc	tcactgagc	ccgcccacca	ctgtgactgc	ctctggcata	14520
cagataccct	ccgacctgct	ccagcagtaa	caatgataac	ccccatttgt	gaggagcttg	14580
ctgtttagaa	ttgtgatata	tgtcatcact	aggcccccaa	ccctacccat	ttatccctga	14640
gagagccag	attcctaagc	ctcgctcctg	ccctcccttc	aaggcccttc	taggttttaa	14700
catcttagcc	ttgggtccaa	atctctgctc	tgttcaagga	cccatcatct	ccccgaaagc	14760
ccctggttcc	caaacccttc	agagtctgac	acccaacctt	gtcatcttcc	acttctctgac	14820
cctctcccac	ccacagcttc	cctgaggacc	cggtctccc	ctccctgtct	ttctgggttc	14880
agcaagtctg	tacagtgtgt	atcccttga	actcataccc	cacaatcccg	gattttagaa	14940
cctgggaccc	caacatccag	ctttgtccca	gactcctgtc	ttccttcagg	cctgggttctc	15000
tgccttctcc	atgttctgcc	ttgtctctac	ccactgtgct	ctccctagga	ccagggccct	15060
ctgggtgcca	ggaggcctct	tgccatgggt	gtccttcagg	tctcactttt	actctgtggc	15120
ccaagctcaa	cctgcactca	ccttccccca	agtcgctcct	cttcacaaag	gccccacggt	15180

ctacccagac	acccagggga	gcctgagatt	ctgtctgacc	tccttcctgc	cccacgcgtg	15240
cagctgctaa	gccctcccaa	tcctgtctct	caaatcccta	atcccggctg	ttggccctgt	15300
ccgcctgagg	aatccaggcc	ccaactccca	ggagcataaa	tgactggcct	cctgctggcc	15360
agccccattcc	catgcccata	cccatcccaa	aggtgtcggg	tctccctcac	tcacatcctt	15420
gtcgcccttc	ttcttgctg	tctgactga	cagtactcc	acttactct	caaactggtc	15480
cacctgcata	ttgagcgtgt	cgatgggtatt	ctaggggagg	gaagggaaga	ggaagcccat	15540
cagctagggg	tccgcctaca	cccagggctc	aggatcctca	gagttcacct	cctcttctct	15600
accccaactc	accgtgagcc	actggccaac	ctcttccttc	tccttctggg	caggatctac	15660
cttctggggc	aggcccaggc	cctctttgct	gtaagctttg	gttttgggtc	ctcgttccac	15720
aactttgaac	cgttccattt	gctgtagaga	gtgcagttgg	caggggggct	ctcaaagggtg	15780
ggaaaggagc	tgactaaggg	ccagcagaca	ctccgacctg	agcctcgtga	ccctactttc	15840
tgagctctga	gtccgctgcc	tcttcacttc	ccttaggtgc	agaaacctta	cttctcttga	15900
ggacctctgg	ggtctggccg	ctctgctctc	gccccctgg	atctcaagaa	tctgggtgac	15960
ttcccacctc	tctgggactc	aggctctggg	ctcctaccgt	ctcaatgagc	ttgcggttgt	16020
ctataagctg	cctcttgtcc	ttgatctcgt	tggacgctac	ccatgtcttg	atttgggtccc	16080
tcagccgctg	cagatgggaa	aagcaagaaa	gtcagacctc	aggacccagg	aactggggcc	16140
cacagctcct	tctccctggg	acccagcagt	ccactctccc	agttccctct	accctcagga	16200
caaaggcgct	caggccccca	gccccctcac	ttgtagcttc	ttaatctcct	tcttttaggtc	16260
agcctcatac	ttttctttct	ggttcgcgtt	ggctgcattg	tggagctgag	ggatggagag	16320
aattgagaag	tcagtgtggg	aggggatgtc	cagtaccca	ctccagtgat	tcttccctat	16380
gctagggaact	cgaggacccc	cccccaacct	tcccccaat	ccatcttaga	gctgattctc	16440
ttaggctctc	agcatctgca	tatgtagccc	ctcccgctgg	tcaacacca	gaggtcctga	16500
gccgccttcc	tgtgccctcc	tctctgaaga	cccagattat	tagggtctca	gccccgtac	16560
cttctgccaa	atatcttcaa	actgctccac	gccctcggac	accttcttga	ggcagcgatc	16620
aatctcacct	ggccagggag	gaacaaggct	gtgagaatcc	tgcccagggtg	gcaggtatct	16680
aaagagcagt	cctcagaaga	gggagcatgt	ggctacaggt	gcagcaggaa	gtcagctag	16740
taccttggga	tttgcgcttg	tccgccctct	tccctgcctt	acagacgcac	tctcttcata	16800
ctctcttggg	gacggacgct	gctaggagag	attggagagg	aattaacacg	tattccctgg	16860
ctggtaaaaa	cccagagaca	tggacctagt	cagcatagtg	aggtaggtgg	gactggtaaa	16920
gagaagaagc	atttgcctatc	tgacaagaga	ccagccccag	ttctcctgat	gctcgctga	16980
ctgcccagca	tagtgtctgg	ccaacagggg	accccataag	tttgttgaaa	caagaaaagt	17040
tacatacttt	tttgtgtgcc	tctgactcag	gaagtggaaa	attcctagag	catggagtac	17100
cttctcccca	gaatacactc	aaaaaggttt	ttcagagcag	gacagtcata	ctgcacacag	17160
ctgatgactg	ggatggaggc	cttagccctg	gaaatcacac	ttcctactca	gaggggctgg	17220
gcagaggtgg	ctaggagagg	tcatccctca	gacaaagtcag	gagacaaatg	aaactggcag	17280
ctcacagaga	agggcggtgtg	tgtgtgtgtg	tgtgtgtgtg	tgtgtgtgtg	tgtaagctgt	17340
aggtaggaga	agaaagattg	gggggtgggg	aaaacgacgg	cgagcagaga	tgcgaaagc	17400
tgtgaagagc	tgaacccgct	catgcagaca	gggctgaatg	ccaagtagaa	gggactcaaa	17460
ccaccaagac	atttattcca	gagcaggatc	cttaaaccba	aaggaaataa	cactcctaac	17520
caaagaagc	taataccaag	aaggcttaga	gatttggggg	cagaaggcag	tacccaagag	17580
agacctggga	gaagacagaa	atcttactaa	gataagaggg	tgcaaaggta	ccgcagctgt	17640
gagggagccg	atctgcactc	atggaggaa	cccatagcaa	gtggattggg	aatttagagt	17700
caggagagaca	tagaccatca	gggcaggaa	ccaaaacttc	aagagaggag	cgtctttatt	17760
ttaaagggaag	ttacctggaa	cccagagaag	actgaggtca	aaaggggtt	ccaaggagct	17820
ttagtccaag	ggaagacata	ccttagggcc	tgacagcgag	accaggggag	cctgggaag	17880
agaggcttat	gcctcagaag	aagacttctg	agataccagc	ggagattgcc	ctcttcccct	17940
ccaggggagg	ggcctacaat	gaaaagcaca	gttccttggg	atccacgggc	cgctcccact	18000
ctactgtgac	agggcaggga	accctggagt	agtcacttac	tgtaaagaca	gaaacagccc	18060
catactgagg	aacaagagcc	tcaatacaga	gggaagtcac	accaaagag	tcctcaccca	18120
caaagaagg	aacatctggc	aaacagtgtc	atccaacaga	actttgcaat	gctggaaaca	18180
ctctatattgc	gcatactctgt	tggccactga	acatctgaaa	gtggcaagt	gtaatggagg	18240
aactgaattt	ttcatTTTTA	actagttact	aatcaccaca	tgtgactagc	agcaaccata	18300
tgggacggat	atgcttttaga	acaagaagcc	cataaaggac	agggctggta	ccttaccccc	18360
agggagaatt	ttcccaacac	cgcagggacc	cattctgggt	gataataggt	aggggtgcta	18420
ccttacactt	gaggggaattt	aaatctctc	agtaaaaggc	ccaacctaaa	gaaagccgca	18480
gcagccccc	cccaggctcag	ctatcacgcc	ctactgggg	aatctctaag	aaggcaagc	18540
aaccaacaaa	aggacccagg	agaagggtgcc	acagtgggga	ttcaggctga	ggaggggaaa	18600

gccccctttga	cccaggggagc	tcacacaagg	caagggctg	gacaccagag	ctcaggtgtg	18660
cagggatcct	caccaaagtc	caacacccca	acacagaaaa	gcctcttact	gcataggggg	18720
aacaagaatg	tgaacagaga	gtttacactc	cctctttcca	tccaagaac	ccaacagagg	18780
gtcatgggca	ggtgctccag	cccagagaga	gaagaggtct	catggtctac	acccctaacc	18840
aaggcaatca	acaccttagg	caggtgacgc	cctccctgtg	tctccacacg	gaaaggactg	18900
gtatcctagt	gcagaggaag	aatacccaca	gagaggagac	cacactgtgg	cagcaagaga	18960
aaggaactct	ggaggggtca	caagccagaa	ggaggggaac	aagagcgcta	acccagggag	19020
gtgatgtttc	agacagaaca	gtgtgacatc	gaagtgcggt	acagctgaga	cccagtgagg	19080
aggcagctcc	tccacagaga	aggggcaagt	gccagaggcc	caggggtactt	gtcccctaga	19140
gaggctggag	ccttagccac	agtagagaca	acaccttccc	cgctaagaaa	atccttatat	19200
catgagggta	tctgtacctc	tggtccccc	agcaaaggac	cagagagaag	ggaagctgga	19260
gcctgagtct	cgaagcagag	acgccgccag	agaagaaaga	gccccatttg	ctgtagtcag	19320
gggggcatcc	accaagatcc	tccaaggaa	gtggtgatcg	caggtccact	ctcaggcggtg	19380
aagaactctgt	gtccagcag	caaaggctct	ccaagagcac	tgaggaatct	gggaacctcg	19440
gccagggagg	agacttacct	aagaggaaca	cacatcccca	cagggaagg	accacaaagg	19500
cgggtggcgg	ggcgggggga	ggtgagcagg	acaccagcct	cacaggagcc	aacacgctaa	19560
aatcagagcc	aaaaccagta	aagaagagcc	ccccagactt	catctcagg	aagatgatac	19620
caccacacaa	agactcgagg	agggaggggc	aggaggtcag	ccctgggaaa	ctaaccagg	19680
gtggtcctta	accttggggg	ccgtcatgtg	cccacagagt	ggtctttgtc	atgaggcacc	19740
tttgatctgg	gagagctttc	gcctctgcag	caaggagctc	tgagaagtga	tgttgaagg	19800
tgatccttaa	cccaggtggc	tgctgacgtg	gccacacaga	ggctctgaga	ctccagaaga	19860
aggatgcgtt	agggcctggg	gtagaggtag	tcctctccac	tgagatgccc	catgccaaagg	19920
gtggggggct	ggaatctccc	accttggaaa	gtctacacca	gagaagtctc	tggtcccagg	19980
gacaggggtct	acagtggagt	ctcccgttg	agactcaggt	atcttacatc	cacacagcca	20040
ggaaactatg	ccttacccca	tacagtgaca	aatcaagagg	gggttttgga	agcatgagcc	20100
gggggcacct	gcattccgaga	gggtcctca	gccttacggt	ggggacacat	gcagaggcgt	20160
ggacacctca	aatccagaaa	agcagccata	ccaataccaa	ggatggcaag	aaccttatcc	20220
ctggggggagg	tgacaccaag	aaagggtcct	tacctggag	agaaggcaca	gccccagagg	20280
gaagagcccc	cacctcgag	tacaggaacc	cgggtctagg	aagcttccta	ctctcatggg	20340
gtaccagcag	cggggccaga	aggcgaacc	cttgttctcc	aactgctgac	accagcgta	20400
agggtagatg	ggaagtcaac	aaacccacag	tgtgggatct	gatgcaata	tcaagggcag	20460
tgggtctctt	ggtccttgga	gagctgacac	cctaaaggag	gagatgggtg	tgaagatgga	20520
agaagcctca	tactcaggca	gggtgaagg	gagggagggg	agacatcaaa	acccctcacc	20580
aaaaggacag	gagagctcac	cccgggtggt	gtggccgccc	tgactgaga	ggcagggact	20640
gctcagaaag	aggggctggt	gctgcccgca	gtgggagctc	actaacatgg	acagcgtggc	20700
ggcttagtgt	ctttaccag	gcacctgagc	gccaggggat	cccagcagcc	cccagcaaca	20760
agaccacagt	ggtcctgata	tactgggag	acgccacac	ccagaaggtc	ggagagtcac	20820
gatgcagggg	agttcaaggc	tgcaaagcca	ggggcagacg	ccaggatcaa	agaagtgtga	20880
gagctgagac	cagacgtggg	ccacactgag	gacggtcctg	taccccaggt	gggggaaagc	20940
caaactcccc	caaaaaggca	ggcgcccagt	gcagcgggat	ggcgaggctg	gagccaccca	21000
gggcgctact	cgctatgaga	gggaagagct	gcagactaca	gaggtggaaa	cttcggcaaa	21060
ggctccaact	aacggggagt	ttctcctcca	ctcctctccc	aagaggctcc	catccgatac	21120
agacgggcag	ctggaactga	gatccagggg	cgaggetgcc	gcgtcccggg	acgccagtga	21180
ggaggggatgc	ggaggcgctt	cggtcctggg	aagggtgact	ccccaccca	gctgggggtcc	21240
tcgtcccagc	caccaccccc	cctccccgcc	accgtcgagg	gagaagcccc	ggcgcgaggc	21300
tgccccacaa	cgcgaaggac	cgaggccgag	ggggcaggc	acctgagccc	cgagaggcg	21360
ggcacctggg	accaggggag	cctccatcct	tccagccagg	agccataaccg	acgcggagag	21420
gggcggggcac	ctcgcgcccg	ggaggcttcg	cacctcaca	cccctaccgg	ggggcccagc	21480
gcgatgccac	gcggggaggc	ggcggcgggc	ggggcccggg	gctccgggct	cgcggaagga	21540
cccccgggag	gcgctgagga	acgtgaaaga	ggcgagggaa	cgggaggggcg	agagggaggg	21600
agccgcccc	cgccgggagc	ccgcgctgc	agaggcgggc	gcagggggca	ggcgagggga	21660
ggccatgtcg	cgacagacgg	cggtgtcgcc	agggcgggag	gcggcgggga	ggcgagacga	21720
tggcgccggg	gggaggaagg	gaagggtgc	ggcccagtcg	agcctgacgc	tctcaccaca	21780
ggagctggcg	cgccgctga	ggagcgtatc	gcgacaggcg	ggggaggcga	gcgcccgcgg	21840
cctttttctc	gcgccccggg	cccgggcgct	atcgcgatag	cggcgcgtat	gtcggatagt	21900
gggtttgttt	gattgggccc	gggtttgttc	tgacgacggg	ggtcggggct	caagggaggc	21960
cgcggcgctct	gccgatggct	ccgcggaagc	tgaccgggccc	c		22001

<210> 1948
 <211> 13994
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (156)..(156)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (10132)..(10132)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (11830)..(11830)
 <223> n equals a,t,g, or c

<400> 1948
 ggaagtgcaa agaggcgggc gtgccagtc ctggacagct acgacgccat gaatatcttg 60
 cccaagaaga gctggcacgt ccggaacaag gacaatgtcgcccgcgctgcg acgtgacgag 120
 gcccaggccc gggaggagga gaaggagcgt gagatnnggt gctgctggct cagcaagagg 180
 taagctcgga agccggcagg cggcgctccg gggcccagcg cgcaggcggc ggttgggggc 240
 cggaagcgga ggctttgcgc aggtcaatg tgcccgtgt gaaattcggg accaggcgcc 300
 gatcccaact tgcaggacgt tgcccgcgaa acctgtgtcc cacttccacg aaaccttcc 360
 tgatctcgcc ctctcttag tttttccac actgatgtat ttcacatggc tggaacagt 420
 tctagcacia gagagaagct taacatttaa tgaatccgtg accccttaga cagttcaagg 480
 aaattcggat cacttttttag tttgctgca cagcctattt attgagcatc tactgtatgc 540
 taactacatg ccgtgcacct gacttgcgga atccccaata agcactgttc gttcttagag 600
 gggcactgtc atctctgttg cagaaagtga gatggcttca gtgaggggaa ggcacatttt 660
 aaggagaggc ggacagccag ctccacgcca tcggggagcc ctttcgtgca ccgcccccta 720
 gacacataca cacaacacg ggctttccgt atggctcttt aaatctgttt ggtgtacacc 780
 caactttcat ttccttagct agtctgatcc tccgcctgg gtgggaggta gtctagggtt 840
 ttagaatctc agtaggctgc tgagcgtgt ttgaaatccg cgtcctgaag gcaggggaca 900
 gggcttcagc agacttggg tagtcacttg gagccatggc tagaattcag atcgtctggc 960
 ctaatgcata cctttatggc tgttttaatt gtctcacttg aggttaggaa cccctttgg 1020
 ttaggccagg gacctcctcc catacatcct tgatgacctg tggtttacta ttgaaagg 1080
 agtttacaaa acccaggcgt tgctcatct gcctacctc acccccagct aggacagggt 1140
 cctcttttag ggccttagtg ctccctttct cataacccca gcacctgga ctgccatttt 1200
 ctgtgggtgg caccagactc acagttcttg aattaacctt aggttctgaa tgcctgcct 1260
 ataactttct ccccaggccc gtacagaatt cctacggaag aaagccagac atcagaactc 1320
 actgcctgag ctggaagcag cagaggcggg agccccaggt tctggccctg tggacctgtt 1380
 tcgggagctg ctggaggaa ggaaggaggt gatcagaggc aataaagagt acgaggaaga 1440
 aaagcgacag gagaaagtaa gctggcctca ccacttcat cagaggggcc atgaatcgag 1500
 ttggaggggag ggggcacttt agccatttgt tgtgaccaag gtcaaacaag agtgacaca 1560
 cagaatttag gaccatacca aggcattgaca ctcaaaaagc gttggctatt gccgtctggg 1620
 cgcccacagg ggttgagggt agatgctaga ggtccccagc tgctgggcaa accgctcagt 1680
 tctccaaact ggaggagtct caaacctgat gggtttttaa aaattttaat cagccggctg 1740
 tggctcacgc ctgtaatcc accaccttgg gaggctgagg cgggtggatc acctgaggtc 1800
 aggagttcaa gaccagcctg gtcaacatgg tatctctaaa aatacaaaaa aaattagccg 1860
 ggcattggtg tgccgcctg taatcccagg gaggtgaag caggagaatc gcttgaccca 1920
 ggaggtggaa gctgcagtaa gccgagattg cgccactgca ctccagcctgggtgacagag 1980
 cgagacccca tctcaaaaaca atcaaaaaa aagtgaatca atcgctctt gctttttggc 2040
 taagatcaag tgtaaaagggt acatcagtgg ctgtgcatgg tggctcacgc ctgtaatccc 2100

agcacttttg	gaggccaacg	tgggtggatc	acctgaggtc	agaagttcaa	gaccagcctg	2160
gccaaacatg	gcaaaacccc	gtctctacta	aaaatacaaa	aattagctgg	gcatgggtgg	2220
gtgtgcctgt	aatcccaagct	actcgggggg	ctgaggtagg	aggattgctt	gaacctggga	2280
agcagagggt	gcagtgaacc	gagatcgtgc	cactgcactc	gagtctgggc	aacagagcga	2340
gactccatct	caaaaaaaag	aggtacatca	gctcttgtca	tttactgct	gtctctggac	2400
ttgctgaccc	cacccatcgc	tcctctgctt	tgettgatcc	cttcaggctt	ctcttcaagt	2460
ctctctgcaa	agatgcctgc	ctctgaacac	tcaagtggct	ccacttgtcc	cctccttccc	2520
ctgctgttac	tgtacctgct	actgtccccc	agggggagct	ttgcctctgt	ttgtcttcca	2580
tccccagcac	ctggtccaac	tgggttcataa	caagccttag	atacctgttc	gcttagatac	2640
ctgtgtcagg	gagacacacc	tgacaccttg	aaagattata	tcacatctct	tgtatttcct	2700
ggccccctca	ggagaggcaa	gagaaagctc	tgggcacctc	gacatacctg	ggccagagtg	2760
cagcgagggc	acagactcaa	cccccttggg	accagctac	cccagggcga	gggggcccc	2820
cgcccgccc	agccccagat	gagaagatca	agagccgtct	ggaccctctg	cgggagctgc	2880
agaagcatct	ggggaagaag	agacagcacg	gcggtgatga	aggcagtcgc	agcagaaaag	2940
aaaaggaggg	gtctgagaag	cagcgaccca	aggagtaaga	agacccacc	tcggcagacc	3000
agggcccaga	ccttcagggc	ttggcagcag	ccagcatggg	cactgcagcg	tctctgggtca	3060
ggacagccag	ggactccgtg	aagggctggc	taggtggaga	agtggttctc	agcatgtggt	3120
ccagggagcc	ctaggggtcc	tgacaccctt	tcccggggtg	ctgtgggtgc	aagcctattt	3180
tcttgacact	ggtggacttt	tccactcgtg	tctcaggca	tgtagtgcag	gtttccagag	3240
gctgtgtgat	ggggagacac	cctcactctg	atggccaatg	gcagatgctt	gtgtccaaac	3300
tttcttagtt	ttcactaatg	atttgcagca	tattaagaga	acccatttaa	acaaaagctc	3360
ttggggctct	tggtttttaa	gagtataaag	gggtcctgag	accaaagagt	ttgagagctg	3420
ctgggttaga	gagtaaaagc	aggcttctgt	ctccaggatg	ctgcaccctt	ggtctagagg	3480
gggtacactg	cctgtagtct	tctttcctct	agaaagggaa	actgagggcc	agggggctgc	3540
taagtgtgct	ttcttgacct	ggagaagcat	cagattttaa	agactgggga	ggaccaaagc	3600
ccacagaagc	gaaggccaga	gacgtgccca	tggcgcccca	gcaccaagtg	gctgcttcca	3660
gcaggccctaa	ggagctgagg	ctgggggtgtg	ctggatgcag	cggggcttcc	aggcggcagc	3720
tccctctatg	ggagaggttg	ggggaatggc	ctcctagggg	ctaccagctt	tctgacctca	3780
ctcctctccc	cacaggcctc	catccctgga	ccagcttcga	gctgaacgtc	tgcgaggagg	3840
agcagctgag	aggtctcggg	cagaggccct	gctggcccg	gtccaaggcc	gggactaca	3900
ggagggctcag	ccggaagaag	acgagacgga	tgaccggcgg	cggcggtaca	actcccaatt	3960
caacccccag	ctggcccggc	gcccccgcca	gcaggacctt	caccttactc	actgactcct	4020
gaggggggtac	acccttggtc	gdtgctgcca	gcgctcatat	aaaactattt	attcataaat	4080
attttccaaa	atgaaaatag	gtttaccaaa	aaatgtccct	cactggggag	gggaggaggg	4140
ggcagccctc	gcccccgagc	ccccagggtg	gggtctgagag	gaaaacctcc	cggccccctc	4200
cctgcttctt	gggagagggg	gatgccccgt	ggcttggggc	ctccctccag	tctccaggg	4260
cagggccctc	acctgggcag	ggggatcagc	atgcggggga	agggggtggg	tagaggaggg	4320
ggccgggtgtc	actggagggtc	ccggtcctcc	aggtagcggt	actcaaaggt	gaagccttcc	4380
ttcttccgct	ggccccactt	ctcgtagtca	aagtagatgt	aggtgccttg	gccgggggag	4440
aaggcggtca	gtgagtggac	gaggaggtgg	tctgggatct	gggccggacc	aacagacaaa	4500
ggggacaatt	cttagggctg	tggatgtgtc	aggcacccgg	ccagctgccc	tgcacgcaca	4560
cactctcatc	catctcaca	aggttcttct	tgggtaggaa	atgttatcat	gccacttcag	4620
cgaggaggaa	acggaggggg	ccgcagaggt	tccacogaag	ccagctgca	gaatcgtccc	4680
cagccccagg	tgtgagtgca	cagccttcgt	ttcctcgagg	gctgtggctt	ttgagcacct	4740
ctcacgtgag	taccagatgc	acagcctagc	atttaattct	cacaaagacc	tcgaggcagt	4800
gggtactgtc	acccttgttc	tagagaatgg	aacagtctca	gagtctaaat	ccaagcactc	4860
tgaggggaca	ttttattggg	gacgaagtgg	tgtgggaatt	tctgaatgac	tggatgccct	4920
gaaatgtact	aacttgagg	atggttttgg	gccaaaccag	gaaaggacag	gaagtctgtg	4980
gttaacatct	gaggacacaa	tgggagagga	cctaggttct	aaatgaatgt	cttaagtgtc	5040
tcaaagatgg	caacctggga	gaaccaggag	aggggactga	gtctctgag	gacaaggacc	5100
ttgtactact	tcacccccat	gaaggggctc	ggcatcaggg	aagtatttgg	tggaaaaaaa	5160
catcactgta	gaacacacca	actgaaagta	atttgaaaaa	aaaaatccat	gacactgact	5220
atgtagcagt	caccattaag	tacttacatg	ttattaactc	atttaattct	cataacaact	5280
gcattaggta	ggtggtcttc	cccccatttt	tacagataag	ttaattgaga	cacagagggt	5340
cgagtgaact	gcctagagtc	gcccagctgg	actgggctga	aaccaggta	ggttggttcc	5400
agagtgtttg	caagcagcag	gaatttccca	gtattagaac	ttgagaagcc	cattcaaaaa	5460
aaatagtttc	ggcactgaic	ccctgcccctg	ctgagtgtg	ggacctggag	gtgaagtggg	5520

ggccatcaag	gtccctcggc	agcagagccc	acagcctggt	gcagggacac	atactgggaa	5580
aatcccacac	cccaagcgag	tgtgcccagc	actgcaaagg	ggaggcactg	ggctgggttg	5640
ctccaggaag	gtttctttga	ggaagggaca	tttgggctga	gacctacagg	aggcctagga	5700
gctggccaag	tggaggatga	gagggcggtg	ttccaggctg	agcagacagc	cagagggagg	5760
agtacttggg	caggctgagg	gactgcgcca	gctgaaaggt	ggaggcaagg	gagcagaggc	5820
cagcaggaag	tgcctggagc	ctggggactc	tacccaacc	ctagcagcgg	gaagagaggg	5880
cggggccctc	acctgctcaa	actcgtcagt	gtgggtcttg	ggctcctcgt	gcctctggaa	5940
ccacatcatg	tacttgggtg	ggaatcgcca	tgactgcttc	tttagggcct	tggctgccag	6000
atactgtgcc	ttagtgccct	gggggaggaa	cagtggagag	ggggatcagg	gggccccaaa	6060
ctgggtgggg	agccagggga	atggggcagg	acatcagggc	tgaaccccgg	cccccgccac	6120
agaccacagt	tgggctggac	aatcctcttg	gagatggggc	tgggggcaca	gaacatacca	6180
atgctgatca	ggagaaggaa	aatgagacag	gaggtgaaaa	ttgctttcag	agaagctttg	6240
agaaggaaga	aaaactaatg	tgtgatgaga	gctgagagag	gaggcattta	gaaaattccc	6300
aagtgggaat	gaggggtggag	gtcactcatg	actcactggg	ggttgggagg	gggctggaca	6360
ggctccccag	tggtctccag	ggaggcctga	gaatgtgcc	atgagcagag	tggggtcggc	6420
ctagactggg	gctgctggag	cagggctggg	gaggagccgc	gggtgagcca	gtgggcaact	6480
ggaagcgggg	ctgaggtgtg	cctcagtaga	ccagcctcgc	tgtcaacca	agcagtata	6540
acatctctgg	gctggaaggc	ggggacgggg	acaggtggat	ttgggacagg	gcccagggag	6600
tgggaatagg	gagggggtgc	ggtcccagtg	ccgcagtggt	ggaccacct	cacccctcca	6660
gcccaggggg	ggagcggcgg	ggtggcggcg	aagcggggg	cccaggcgtg	ccccgggggc	6720
cctgctgtac	ctccagatag	tagaagatga	agaagagtgt	ctcggtcgac	aggcgctggt	6780
agaattccac	agtgtccgag	tgtgggggtg	gcatctgggt	gtggtagggg	ggcgtcggac	6840
aggggttccg	gggaggtac	tgctgtgag	agcaacagga	aggtcagtcg	cagctgccta	6900
ctagtcctgt	cgtgatcaaa	aggggtgctc	gacatgcac	cctgcggggg	gggtggtac	6960
agaaagaccc	agggcggtgc	tgaccttcag	tggagagccc	aagtcagggg	cctggtgctc	7020
taccacagag	ctcacagggt	cagccactgc	ctcctccgta	agactcaagt	cccagaccat	7080
cccccttccc	tgtggcccc	caccgaatac	gctcagagtc	agaggggtga	ggcatgtggt	7140
gccaggcggc	ctcttccatg	gcctgctgat	agagctgctc	cttggtgagg	gcacagggcc	7200
cagtggacag	acaccagcgg	acagcggtat	gttcacctct	gacagctgca	ggggcggctg	7260
ggctgaggcc	ggaggtgctg	atgtactgct	caggatgatg	tctgtgggga	gggtgggggt	7320
ccggccccct	cagtgggtgag	gatgggtcag	gggcagcccc	tcctcttgg	cccgtgctt	7380
ccccaccatc	ctgggtccct	cacctcgctc	ggtcaggtgc	agcgttggca	cagggctcct	7440
aatgccagag	ctgatggctg	cccgttcgcg	catggacttc	aaggagctca	gaggctcagg	7500
ggcctgggga	ggaaacaaga	ggcctggcct	gagcacttgg	gctgcaggag	caagtgcagc	7560
ctgacacagg	ccccagatgc	tctcacctgc	cctgtttggg	ggccgtggag	ggccaacgac	7620
ccactcccca	caatctaccc	atgacaggta	aaagcatcaa	actgtaggga	aacaatcgga	7680
gaccacgacg	cattcatcag	cagaggaacg	tctcgtgagt	gggactctgc	agcatggaat	7740
actacgccga	gattttcaaa	atacaagttc	gtgacatact	acagaagtaa	acgccaacct	7800
gcagaatatg	tacagtgcgc	taccattttt	gtcaaaggat	gtgccaatag	tacacgctcc	7860
ttcactaggg	acacctacac	gctgggagag	ctcccgcttg	tcttgaagga	ggcaggaggt	7920
ctacatgctc	agctgtctgc	ctgtgactgg	catgggggtg	ctggaatcgg	ggtgggcccc	7980
gcccggctag	gcttcagtct	ccttgcctgga	aacaggtagg	ttgggtctcc	agccccgcag	8040
ccacagcctc	gtttcctatt	acaaagggtta	cagcaggctt	ctgttcccca	aagtcagggc	8100
tggttcctcc	catctcctcc	agccacgtgc	agctgtccca	aaccccagcc	ctgtgctgga	8160
ctctccacaa	cgagtcatgc	gccaaggctt	atcccactg	tctcgtctata	tcgcccaggc	8220
aggtctcaaa	ctcctgggct	caagctatcc	tcccgcctct	gcctccctaa	gagctgggat	8280
tacaggtgtg	agccaccacg	cccagctatc	cgctcctgct	ctaaacccca	ctggatggct	8340
cccttccctg	tcgtgccacc	atgtccca	cagcccaggc	ctgtcctctc	ctgccagac	8400
caccctccct	ctatcctgtc	ctcaccagcc	ccaggggacc	tttccaatga	agtcagtgtg	8460
ttccttctct	actccaaacc	ttgccatggg	tcccagaccac	ccaccccagc	gattcatttt	8520
tgttgttggg	ggtgttaaaa	gatatggacc	ccttctgaaa	atctcaaagc	tgctgtttcc	8580
ctttttccag	aaaaatgcac	gcactataaa	tatcctgtcc	acctacttct	aaaatttggg	8640
ccgggcacgg	tggctcacac	ctgtaatccc	agcactttgg	gaggtcaagg	tgggtggatc	8700
acctgaggtt	cgaggttcaa	gacctgcctg	accaacatgg	caaaacccca	tctctattaa	8760
aaatataaaa	attagcctgg	cgtgggtggc	ggcgctgtga	atcccagcta	ctcagtaggc	8820
tgcggcagga	gaatcgcttg	aacccaggag	gcggatgttg	cattcagctg	agattgcacc	8880
actgcactcc	agcctgggtg	acagagcaag	actctgtctc	aaaaaagaaa	aaaaaaaaaa	8940

attaatgctt	ctgttggggc	agaaactgtt	ccaagagctt	tatgaggatg	atttagtctt	9000
ccaaataacc	ctacatagta	ggttaaatcg	tgactattgc	cgtttcccag	atgaaggcac	9060
agaaaggaca	atgccaagac	ttggacctgg	acagcctggg	cgcgcacact	gcctcctgga	9120
cagcctgggc	gcgcacactg	cctcctggac	agcctgggca	tacacactgg	tcccccatg	9180
gaagctgcgc	tacagtatac	tggctcacia	gccaagcccc	agctcctgac	cctcagtcat	9240
caggacccca	ccgtcctatc	ctgctacacc	cactatctca	gccctgcagc	tggtggcact	9300
gtctcctgca	gagtggacac	ctctctcttc	tctgctgcat	cctgcccagc	ttcctaagca	9360
cacaggcaga	tgcattgctc	tcctaaagca	cctcctgaag	cccttcctgc	agctgttagc	9420
ccccctgcct	ggtccaggtc	tcagcttaaa	catcaccccc	tctcagacct	tcttgggcct	9480
gtctcccagg	tcaggtcaga	tgccccctcg	tggggcccacc	gcaaccttcc	ctgcagctgc	9540
cccagcaggg	aagcttccta	aagggtggaa	ccaggctgca	ttcacccaac	cagtctttct	9600
acttgtgcag	aaagtacacc	agtctatgcc	ttgtgaggac	aaacggggac	agaaactgag	9660
ggcctgcggg	atggagtgaag	atggagacct	agagagagca	agcaacaagt	gcaaccaaga	9720
gaaaggaaaa	gagaccaga	gaaacagagc	tttgaggagg	acaagagagg	aggtatgaga	9780
gccccagag	atcaaggcca	cggggagggt	ggtacagaaa	gacctggaga	aagagcaagt	9840
gtgagaaggg	gacagaaagc	cagagagaga	tccagaaaga	gggtgggggc	aaggggtgca	9900
gctagagacc	tggaggaaaag	aaacaacaga	gtcaggacac	agaggctcgg	gggatgtccg	9960
aggagccac	cttgatttct	ggggcggtgc	tgaactgtgg	aggcccattg	agcagggcac	10020
cggctgcctt	ggcatcactg	aagctggggc	ttggggagct	gggggattc	acaggcagtg	10080
gcaccaggag	gctggtcccc	ctgagttggt	ccctgagcct	ggccacgcct	cnccgcccgt	10140
tggtgctgcc	gcaactgggt	ccttcctgga	gagagagcat	ggaagagggg	gttgagagga	10200
gggtccctga	gggtgggatg	ggcagagagg	cctggctgga	gagaggggag	actgcacaga	10260
tcagatggga	tctgagaggg	gcaggtgagg	gcagacagat	gggagaaaga	agtggttctc	10320
tgggcaaaca	aacgcagagc	ccaatctttg	gaatggtttc	tcacagcag	agcagagctg	10380
tgggggtggg	ggtgaggatt	ctcgggtgct	ccaccaggcc	acaggctgat	caaaaccact	10440
tgccctgggc	aggtgttcac	agggccact	cccccttgg	caggccagct	ggagctgggg	10500
tgagggggca	ggaagcaggc	ctttcctttg	tgcacactga	tctttcttag	ggcattcttc	10560
gggaaacagg	cagaccagct	ggaatggtct	gagctaagat	ttgaaggagt	ggctgcagag	10620
gaataaggac	ttcgggacaa	ttcactttga	aaagtgaac	agtgaccctc	cggtggcagt	10680
caattggcct	caggcaggta	acagaaatgg	ggaggaaagg	gtatggggct	cttgagaaaa	10740
cttccactta	gatgagaacg	tatttttagaa	tgttctgaag	ggcaaagcag	ggaggctgat	10800
gtagtttctt	tgctggaag	aagtgggggt	gtaacaccgc	atggagatgg	aggatagcgc	10860
ttggccattc	ccagcagcaa	gggcggggg	tttgaaccc	accgatgcgg	gggtgaggcg	10920
cctgcgcctc	tctgtttcaa	aaggctgcca	tcccaaccct	gccgatggcc	gagacactca	10980
cgaggtgctg	ggaggtgggt	tgtggggggc	ggaagggggg	cccaaggcct	ggctgctggc	11040
attgttgccc	ccactgctgc	tcaaagccac	ctctgccggg	ctgtctgcca	caactgagct	11000
gtaacctggg	aacaaagagt	aaatggaaag	ggctgctgcc	tgctgcccag	ccccgcccac	11160
gccccccacc	ccgctgcctc	ctcactcact	ggtggcgcca	ttctgcttgc	cagccccctc	11220
accggcactg	ctgttactac	tgctgctgct	ccctccgcct	ccgctgccgc	cgctctcgcc	11280
tccgctaggc	tggacgctgg	ggggccggg	ctgggtcgtg	ctgggcccac	tgggagctgg	11340
tggggcacag	cctgggcata	gggagcaggg	gtgcccagat	tgtggctggg	agctggactg	11400
gccttggggc	cagggcactt	gggggtgctg	cgggggcggg	gaaacattgt	tgccaggagt	11460
ggtgctcaag	gcagaggcag	caggcggggg	gccggagagg	taggtggggc	gcacagctg	11520
ggactgaggg	tgctggttgc	tgtggacagg	cttgaggccg	tttttgcctg	agactgcggg	11580
tggagagagc	agagggtcag	gaccagctgg	gccagctggt	ctccctcacc	acccccacct	11640
caggctccat	ctttgtccca	gcagcctcct	ctctggcctc	gctgcccaca	cctgctcctg	11700
ccctcttggg	gacctgggtg	acttactca	ccctcatggc	ttcaatcacc	ttcatgctta	11760
aaacactcac	actgatttcc	agcctgcccc	gcttcccaag	tcctgcctgg	acaccgcccc	11820
atggacaccn	ccacagggat	ctgacacaca	acttaggttg	tcagccagag	aagatccatc	11880
tggttgaagc	cagaggacta	gtgggaaaca	cttaagtgtt	ctcaatatga	gatagctga	11940
gcccgcctaa	tgtcccaaga	gtaagaagga	aaaacagctg	gaaattggat	agtaattctg	12000
aatgtcacct	gaagggtcac	agaagctact	cacagggtcg	gaagttacca	gactccaga	12060
aagtgggtgg	agggtaaatg	tgctcatggt	atccctaccg	caggcaatct	gcggacagca	12120
ctcgggtgc	tgagcctaac	cacctcctgg	gcttcttttc	agccacccca	caggcacctt	12180
gcgcttacca	agcggccaac	aggactgact	acccacttct	ctcctgggca	tcgctgcttg	12240
gcagtggggg	cctgggaagg	tggcagagcc	cagcctggcc	cctggagtac	ctgcctcagt	12300
gtctctcctc	atcacctcct	ggccctgttg	ccgcgcctca	ctactactg	cgggtcccct	12360

tagtctccac	accagcctcc	tcaatgccca	ctcaggggtg	ccccttggaa	ccatccatcc	12420
cgtagccca	cagagggg	tcaggcccat	gctgctcctg	cctaacattg	ttctgtagca	12480
gcgtttccga	aagcgtgctc	ctgtcctggg	agatgtcaaa	ggagtgaag	aagcactgcc	12540
cgccaccgtc	tcctctcaga	aatttgagct	gtgtattatc	agcacagcaa	aggccccatc	12600
gcttctagg	cttattggac	tctggaggcc	actcaggtcc	acaaagcctg	agccccctag	12660
cctgacagtc	ccagtccctg	tgtcacagtc	tgggccccctg	gccctgcaga	cctggccaga	12720
ctcatctctc	ctcacttcca	aactttctgt	cacaacttgc	catgttact	ggctgccacc	12780
tctccctgcc	aggcaaaactc	acctgactgt	gaagcccagg	gcactccaca	gcagcatctc	12840
ctgactgcct	ggccaggcca	agggtgacct	gtgtgctacc	cccttgacca	cagcaccagt	12900
cacctgtcca	cttgccctgc	ccacctgcc	tcagggcagc	actgatttct	gagccacctg	12960
tgtccaccag	cccagcacag	tggccggcgc	tcaggcctca	agatgccttt	gggaagcaac	13020
agaggagtga	atggcgtgcc	caccgggtcc	aggctcacac	ccacctggct	gacttcaactg	13080
tctgtggaac	gtccccctctt	cttatcatct	tcagagtttt	cctgaggtag	gggaggcaga	13140
atagaaacct	gtgtgacctc	tggggctctg	atggagacc	gccaatctct	gaatgccccg	13200
gggacctggg	gccaattgac	tgccattgcy	gccccagagc	tgggtcaaatg	gctgtcctta	13260
atctgcctgg	agaaaccatc	tcaattcagg	ctctccagtc	ttcttgtttt	ctgggagcca	13320
gcactgacct	accagcctct	taaggatctg	ggaacctgct	ctccacaggg	aagccaaccc	13380
ttggatccct	gcccaggtg	gccagctacc	cagcctcctc	aggcagcca	ggcaccggcc	13440
cctcccactt	cccagatcca	ggacctaaac	tggcgcgga	tgcacctat	tgtctttat	13500
gtcctttagg	gaccagata	taggacctta	gcgtgtgctc	caagagccta	gacctggat	13560
acctagatct	gtgtttcctc	aattacgtc	catagccac	tttggagtga	cccagatttg	13620
tctcctcgag	tcctgccctg	ctggaaacac	aaggtactag	tgtcccgtgg	ggcctcaccg	13680
tggtagagtt	ggctgggctg	ggcgggatgg	gagagctgga	ggtggttgag	gtgggcgtgc	13740
tgttgagctg	gttgaagatc	tcatcctcca	tgtggctgtg	gctggggggg	gaggtggcga	3800
ccagcgctg	tgtgtgtggg	gcagaagaag	ggcatgctta	gctggctcac	acagcccatt	13860
ctgggcccctc	acttctctgtg	ccacgatcag	ccccagggcc	tcacgaatgt	cctcgaggtc	13920
caggtcatcg	tagagaaact	cgttctcctc	gaagtcgggg	tcctgggatg	agtcaacata	13980
gtactcaacg	tcgt					13994

<210> 1949

<211> 2971

<212> DNA

<213> Homo sapiens

<400> 1949

gggaaagtga	cggcccaaac	gccagggagg	agccaggacc	tcgccctgag	ctagcgggag	60
gtaacggcgg	ggagtccctg	ggcggagacc	gagcgtctgg	ggcgtggtct	ccagcgggac	120
tgggcctcta	gcgggagtg	ggcgggggc	ggggcgggg	ccagcctggg	ggcccagacg	180
tggcgacagc	actcggaggt	tcgcctccag	cttgccgcatc	atctgcggcc	gggtcccgat	240
gagcctcctg	ttgcctccgc	tggcgctgct	gctgcttctc	gcggcgcttg	tggccccagc	300
cacagccgcc	actgcctacc	ggcgggactg	gaaccgtctg	agcggccctaa	cccgcgcccc	360
ggtagaggtg	agtagcgcgg	cctccagccc	cggcactatc	gttccccaac	cctgcggccc	420
catgggagca	ccgtccgtcc	cggccccaag	accacctoga	accgcgagtc	tccctgcttt	480
ccccctggcg	ccgggaccat	ccctcctggt	ccctagcccc	agatggcccc	agcaccacc	540
gtggaagcct	gagacaccga	ctttggggcc	tggaaactccg	aacctttccc	cagctcccc	600
taccgggtcc	gacagcggac	accagacac	actgacgcag	tctcctaact	cttctcgtgg	660
cctatgactc	ccaatcctgt	cccaacttcc	catcccccat	cacttcatgt	tttctcgtaa	720
ttcccccccg	acccggttcc	agggtctggg	gctccagaaa	gtctcttttc	cttctcctgg	780
ggggaagaa	gactttctgg	gtgcctcctc	ccatatgcag	gatccgggga	agggggccaa	840
ctcggagggg	caaccgagtt	gggaacttgg	ttgccaacat	ttactctgca	gcagcctccc	900
atcctcccc	aaccaggaaa	ttcccgttcg	gagtcctctg	cttgctatg	gactttgacc	960
atcacagccc	gcctctgagc	tttttgtcag	ctctgtctga	caaaagggtg	tagaatgggt	1020
gggtgccggg	ggtgcacgcc	tgtaatccca	gcactttggg	aggccaaggc	aggaggattg	1080
cttgagccca	ggagttcaag	accagcttgg	gggacatagt	gagaccctgt	ctctaagaaa	1140
agggtctagg	gtaggatgga	ggagggtctg	agtgggtggt	cctggggtct	agactcctgc	1200
tggatgggtg	catctcctca	gggaaggcag	ggaggagccc	tcccatcctc	ccatgtcagg	1260
gaagcaacca	catggtctgt	ggggctgggc	cgcaggtggc	aggcagggtg	aggtctgcct	1320

gtgtagagta	gggaccagat	ggtaggtgtc	tccaatgggg	gccccaggg	ccattctgag	1380
gtgtttcctt	ctgctctgcc	tccactgtga	gatttcaggg	atcaaaggcc	aagcccaggt	1440
ctctactgct	taagaggagc	aggtgatca	tttcccctgg	gcattgggag	tcagtccaca	1500
gccagtagga	tgtacaggcc	ccaaggctgg	caggcacact	gtgggtctct	ggccttgctc	1560
ttttcccctg	gtgtctctag	gcctgagtc	ccccacctgt	atacacagtt	cccccttctg	1620
cccacaaggg	tccagcattt	ccttcagacc	ttgggaactg	ctgatccggg	gataactcac	1680
agcccgaccc	aaactcaggga	taagggaagta	tggctttggg	gatgtgactg	gaataaacgt	1740
gaaggactcc	tgacctatcc	cattttatcc	ccctccagc	ctgcggggga	tgacagctga	1800
accgcctaaa	ggaggtgagt	ttgaagggaag	aggtccctag	ctctgttccc	cctgagcctc	1860
ttggggagtg	ggcaacatgg	tccaatgac	tggggcgggg	aggggggaag	gatccctagg	1920
ctgagagtct	agcctaggct	gagagtctag	cctgcacctg	acttgcttta	tgacctcact	1980
gggcttcagt	gtctcgtctg	tacctcgagt	agactgaggt	catggtctct	gatgctctgg	2040
ttcctcccca	ggtgaaggct	ttcgtcacgc	aggacattcc	attctagtat	ccttctgttc	2100
tgggggaggg	ggaactggat	gggcacctgg	gagaatctcc	acgtaacttc	agaaaggggt	2160
ggcagatggg	tttcaactga	caagttgaat	tatttggtag	tggctcccag	aggattctga	2220
ggtggtctcc	atggttgggtg	ggcaagagag	attgactagt	gatgactgcc	acagaatgga	2280
gaggaggggc	ctttactttct	ttgaacccta	atcttctcac	gtataagcgg	agaccctggc	2340
ccctcccggg	cacagagtaa	gctctgagca	aaggaggcaa	tgctgttccc	atcagtaagg	2400
ctgcggaaac	caccacctcc	ctctgcccac	caccccgctc	cttaacacca	cctccagtca	2460
caacctgggt	atgaaacacc	tccctggggc	cgaccttag	ctcgtgctgc	tggggcgccg	2520
ctacgaggaa	ctagagggtga	ggcgtggga	gttgggtggg	gggcgaggcc	agaggcgagg	2580
cccagcctgc	tgaccccgcc	cctcctcgc	ctcagcgcat	cccactcagt	gaaatgaccc	2640
gcgaagagat	caatgcgcta	gtgcaggagc	tgggttctta	ccgcaaggcg	gcgcccgcgc	2700
cgcaggtgcc	ccccgagtac	gtgtgggcgc	ccgcgaagcc	cccagaggaa	acttcggacc	2760
acgctgacct	gtaggtccgg	gggcgcggcg	gagctgggac	ctacctgcct	gagtcctga	2820
gacagaatga	agcgctcagc	atcccgggaa	tacttctctt	gctgagagcc	gatgcccgtc	2880
cccgggccag	cagggatggg	gttggggagg	tctcccac	cccactttct	tccttcccca	2940
gtccactaa	attccctcct	gccttaactg	a			2971

<210> 1950

<211> 23307

<212> DNA

<213> Homo sapiens

<400> 1950

tcgttgaaaa	ccaataattt	atcaaaacgc	tgcgtgtgta	tgtggggggg	aggggtgtgc	60
aacagacagg	gcagcgggtg	gcggacgcac	aggcaggaga	cggtgcccgg	agagtggggg	120
cggcagcttg	ccactggctg	gccatgcggg	cgggcaggct	agacattctt	gcccggcagg	180
cgcagttcgt	ggcgtcgcag	gtggtttag	agcgaactga	cataggtgaa	gacacacttg	240
gggtcaggct	tcttgcccat	gatcatcatg	tcttccacct	ccaccagggg	cacacagtcc	300
accagcatcc	tgacgggagg	gggcacgggg	ttggatgtca	gcgccagacc	cgcctctcgt	360
ggcgcgccctc	taccccaagg	tcttttttat	tgccgcattg	cctgctggtc	tttcataaac	420
tccagacagg	gaaaagcctt	ccaggaaggc	aggaagcccc	tggcttcac	tacccaagcc	480
tggaggcatc	tctcggggcg	ggggagcaga	gctaggcagg	tggaggcgga	gatggcagaa	540
gagagcccca	tcccagtcag	gcaggtcctg	ggtctgcttc	ctccaacct	ggggagggtgc	600
tggctccaaa	ccctgcccct	gttctccctg	gagaccacct	tctgctcacc	ctcactggca	660
cactccagtt	gtagaagcc	tctcagctcg	gcctttgcac	ccagatgggc	ttcatcactg	720
gccaatcttt	atctatggat	aggtctcact	ctagtggccc	tgttggtccac	cgatgattgt	780
ctgctagctg	cctgatctgg	tacttccctg	tgagaggccc	agggaacctt	attctttgac	840
aggggggtgg	gataaccctg	ctgctggaga	tggaggccag	ggaacgtgtg	ggcagcagag	900
gggttctcta	acccttatca	cctgccttgg	gtagagcaga	ggaggcagat	gaggatccca	960
gccaatacca	atggaccatc	tatgccatgc	tccggggggac	caccttctg	gccatccctc	1020
agaatgctag	ctgcccttca	cagataagga	aactgagtca	cagagcagag	gagccatttg	1080
tttcaagccc	catggcttag	taagtgcagg	ctaggccgca	tgggaccag	gccccagtt	1140
ctgggtgttg	gcaaagcctt	ttccccactc	tggagtga	gggttgtgcc	tattaagcaa	1200
ctgacagctc	ccagagctct	gaagctggag	tctgctctct	ggctcctttt	cccctgtccc	1260
tcaaccccca	gagcaagacc	tcttctgcct	tgatccctcc	tatctgccat	acctgggaca	1320

tagcaagcat	tcaatgttgc	tgaatgagtt	tcctatggca	gggaaggcat	aatggcaaca	1380
attgctcctt	attctcaaga	cacctgagaa	cccaagaca	cctcccatct	cgtgccctta	1440
tggaacaaact	cagaactgtg	gtagggctgg	gcctaccccc	agctcacctg	gactccttca	1500
gagaagaaac	ctgggaggca	gaacaccgaa	cacctctgtt	ttagtccaga	ctgtatccct	1560
aaccagttgt	gggtgctaga	taaggccctt	ttctatgact	gtttccccct	ctttagaaca	1620
ggacagttat	tctctatctc	atttgagacc	ttacaagaat	ttaggatgag	tgagaggggt	1680
ctgggtctgc	tgctgatgtg	ccacgtgccc	ctagggtcat	ccctatccca	gactgggctt	1740
gtttccccgag	ctgtaccatg	atgcaaaggc	agcctctctc	tgaagcttct	tccagctgtg	1800
gctatcgtcc	tggggatccc	gaccgccttc	tcaacctggg	tgctccctcc	cgccccactc	1860
ccttccctgg	agaccttata	aagccattgt	ttacactggg	gctcagggtc	cagggctcag	1920
gctgccccag	tgacaggcca	aacaccaggc	aacttgagca	acagcacggc	tgagtccacac	1980
tttccaactg	gatcagggtc	gggctggggc	cctctccctc	caagctggct	tgctgggcag	2040
cagctcctaa	gtccatatat	gatctggaga	tagcaccaag	cccatccgcc	actcatctgt	2100
gctccttctc	tgagtgtgtg	tgtgcacatg	tggactgccc	cccacaatgg	ctccaggccc	2160
tgaggggcat	ctgagtgtgc	ccctacctgt	cactgactca	cattccttca	gccaatcccc	2220
ttgctccttc	tgggctctta	ttttcadccc	tctctacaaa	atgggcggga	acacagtgat	2280
ggggcaagga	aaacagccac	taagtgggga	gtttggagtc	tcagtttctg	gccccagctc	2340
tgacctaac	atcttccctc	tccctcccc	ccccaggaca	gtcttagccc	acgtctctct	2400
ctgagctcct	tgtctgtaat	ggggtagtta	gttttaggac	tgaattcttt	actttggac	2460
tgaggtgag	tgaccagaga	ggaaatgcca	cagctggctt	aggatccaga	gtccccagcc	2520
agaaacatct	tcctgttgaa	ctggtcctgc	tcctgagctc	cccactttgg	agtatggcac	2580
caccaactcc	ccagtgccca	cacaggagcc	tggcagactt	cttgaccttc	cctctccctc	2640
tccaaaccag	atctattggg	agcctgtct	ctctagctct	taagctatcc	cagtcattcta	2700
gtccatccca	tctctcatcc	aagcctcatc	cgaggaaggt	cctagaatgc	tatatccatc	2760
ccttctctgt	ttggaaaccc	tttataactc	ctggtgtcct	caggaggaag	gtcaaacttt	2820
tttttttttt	tttttttttt	tgagatggag	tctcgctctg	tcaccaggc	tgagtgcag	2880
tggcatgatt	tcagctcatt	gcaaccttcg	cctcctgggt	tcaagtgtat	ctcctacctc	2940
agcctcctga	gtcgctagga	ttacaggtgt	gcgccacacg	cctggctaatt	ttttgtattt	3000
ttagtagaga	tggggtttca	ccatgttggg	caggctgggc	tcgaactcat	gacctcgtga	3060
tctgcccacc	ttggcctccc	aaagtgtctg	gattacaggc	atgagccacc	gtgctcggcc	3120
agaaggtcaa	acttctaact	gtggccccc	cctccctcat	atccagactc	aagtttcttc	3180
ccttctctgat	gtgctgtgct	ctccagctct	cttgccctgc	taagcctagg	ctgattcctc	3240
tgcctggaac	tccctctccc	tccttttagc	tgaacttgtt	cagatccag	cttagtttgc	3300
actttttttca	gatggggggc	ccagacctgc	agcctgggtc	aggcatctcc	cctgggcttc	3360
ccccatcaca	gtgctgcccc	cctgggtcat	cactgcccac	ttagaatggg	ctcacctgct	3420
gggcccctgaa	ctgccagaag	acagggtctat	gtctggctcc	tctggcttga	ctaaatgccc	3480
cccttacttc	ccccaccgc	ctccctggac	cctctctggc	cttgctgagc	agattctggg	3540
gaaacggggc	aggtggtaga	ggcggcggtt	ctcaccgtgg	ggccccgagc	aggggttagg	3600
acttttttgg	ttttaccagc	cccttctgga	ccagacagcg	gtagaattcc	tggatgtacg	3660
tgtacacgca	cttccagtca	ggctctcgaa	gcgcacccat	gcctctgta	tccaggagct	3720
gcgggcagtc	cgcatgggtc	ctgggggagg	tagggggccg	ggaaggggtg	ggggacgggg	3780
gcaggaggcc	agggcccccg	gtggggaaga	gagggaagag	gcagagaaga	gagaggggag	3840
gaaacagaga	cacacacaca	tacacacaca	cacacagaga	catgagttca	attacgattc	3900
cagtgtctga	gtctgccagc	cccccgcatg	cctcctcccc	actgtggacg	tgccgctcac	3960
tacctcatcac	taatggtgtg	caatgcagac	aagggtgggg	gcaaaccag	tcacaggtgc	4020
agagaactct	aggggcaagc	gggaacgcgg	ggtggggggc	atggcggttg	caccaagggt	4080
ggagaggagg	gctgtgcccc	ggggagaggg	ggtgaggag	gcgtgagagg	aggtgggggg	4140
aggaggaaga	ggagaaggag	gaggaggaag	aaatttgagg	gaaaccagaa	agagaagggg	4200
aaagaaggga	agacagatgg	agaagggtgc	tgagggtgag	gtgagcagac	ggggcaacga	4260
ttccaaagtg	gagggcttgc	tgaggctcta	tataagcctc	tggcagcact	atataggctg	4320
ggcgggcacg	gtgcccgggc	caggagcctc	cttttggaat	ctccagccgg	gatcccgtgg	4380
gagcaggaag	ctctggtgat	agtgggagga	gagcaggaca	gagaaaggga	gagagagggg	4440
gaagggggga	gagggagatg	ggaggggata	tggacagggc	cacctgggtg	gctttggccc	4500
ggctgggtag	gccggcctgc	ggctccttcg	ttccggcggg	cacctggcac	gctcagcagc	4560
gggggggtgg	ggatggagaa	ggacggggac	tctctgggga	aggggggtctc	agccgctgac	4620
tgacaatgtg	gctggcccgc	tccagggggt	ctcaggggcaa	ctgggcctgg	tcccgatgtc	4680
cagccccaga	tgtgcagcaa	cattagcagg	gccaggggcc	acacttactc	cgcatgtgag	4740

aaggccacct	cgaagttctg	gcgtcgggtc	tgaggggctaa	gctgcccata	gtcgaaggcc	4800
tcagggaaga	agttgtgcac	cagggcacag	aaggccatcc	catcactcca	gctggaggag	4860
aagttctgga	tgtcgacgtg	ctataagccg	taggaggact	ggtcaggaac	ctgggggcaa	4920
ctccccctg	ctgtctaccc	ctcagattc	tgttattcca	gacctagggc	actgggcaca	4980
aagaggcccc	gtagcttgca	caatgagtga	atagttggaa	catgagcctc	ctccaagtca	5040
gcctgtcaac	tcccatattt	gcaatttcaa	gggacagagc	tactgagagg	cccagcgcca	5100
cccagctaag	gctatggtca	tgccatcatc	ctccttccct	catttagaga	aattgatca	5160
gggcctccta	cagagcaaca	aggaggggac	tccaagagtg	ggatccggcc	ttgaaccctg	5220
cccaccaccc	aagaggccct	gttacttcat	cactgattct	ggaatctagg	gcttgccctg	5280
tgctcctctt	gagcctcagt	ttcctcaccc	caagagcctt	tccatgttcc	ctgtgaggcc	5340
acacagtggc	aggaagtgtg	ctgggtaata	ggagctctgc	taagaaggag	gtgttgagct	5400
ggggtctggg	gaggcctcca	ggccccctgg	cctcccgggg	ctcacctcgt	agccgcgagt	5460
cttggtcga	caccagtcca	gcagcatctg	cttgatgctg	ttggcggttg	ggaccccgaa	5520
gctggtggat	cgctgcacgg	ctgcgcgggg	tccgccaggg	ctgctgtagg	ggcggtgtca	5580
ggaccaggtc	acacgactat	aaggggcatg	cctcggtggg	cccaccaggt	ggatcccagg	5640
ccccgccttc	catgaccttc	gggcctttgc	accacagatc	tagccgcgcg	gtcttcccgc	5700
ctctgcgggg	ccaactatca	agccccgccc	cccactgcct	atcacgcccc	gccccccact	5760
gcccagccca	cttctgcagc	tcacccgggc	gcgcctcctt	tctccagctt	ctcaatcatg	5820
gccttgcgcg	cctgggaggc	tgaggtcttg	ggcagactct	gcgccttcat	cagctctttc	5880
ttcttctcgg	cttgcgcttt	ctcgagcgcc	gccaggctgc	cgcccggttg	gctggcctgg	5940
tctctgcggg	cgaagatgct	aggggttggg	gaggcgcatg	ttaggagggg	agagcagggc	6000
tgctccccag	cctggaccac	cactcgcgag	gaggaggggg	ggtctttag	cacactagta	6060
tctccactgc	cacaaacgcc	tgccaggggag	ggaggcgctc	tcatcacacg	catttttagag	6120
gagtacactg	agtctcaaat	gacagcaagg	ttttcaacag	gtttccgcct	ccccctcccc	6180
caccacagag	tagttctctg	agaagcctca	ttgtaccctc	aagttacagg	ggagttcagc	6240
ttctggggac	tatccgataa	taaaaatgat	gactagcata	ataatagtaa	taataataat	6300
tcatctctgt	tgatcctttc	ctgtgtgcc	ttttaaactt	cacaagagca	gggagggggc	6360
ttaccaattc	cactaaaggt	gaggaaactg	agacctctgg	cagtaacttg	cctaagattt	6420
cagaggacgt	gatgggcgga	actagaactt	gaacaaggtc	tctctgattc	agagtctctg	6480
gacccctttg	gttctcatcc	tggattctga	tctgttctct	gctttctgcc	agcccccaaca	6540
gcctctgtta	catgggggta	ccctcctttc	tcatgggggt	aagggtataaa	ggtgctgtgt	6600
gacctgggac	atggtttgca	gatactggga	agtggcagtg	ccaccaggca	gctcagtggt	6660
gtaggtaggc	ctctgtaagt	gttcaatgct	attgcagcca	ctcagagatg	tgagccccta	6720
agcaactcac	tggcctccct	gagcatccac	ctctcctgtg	gtgtgggtga	gaataaaatg	6780
agatcccaag	gagagcagga	tccttaactc	tcaatttgcc	cctccctggc	tatagacctg	6840
ttacctccca	gcatcccagt	ctacccctct	gttttatttt	tttattttatt	tattttattta	6900
tttattttat	tattttattt	tgagactgag	tctcgctctg	ttgccagac	tggagtgcag	6960
tggagtgatc	tcagctcact	gcaacctccg	cctcccagggt	tcaagtgatt	cttgtgcctc	7020
ggcctcccca	gtagttggga	ttacagggtg	ctgccaccac	gcccgggctaa	tttttgtatt	7080
tttagtagag	atgaggtttt	accatgtttg	ccaggctggt	cttgaactcc	tgacctcaag	7140
tgatccgccc	acctcgccct	cccaaagtgc	tgggattaca	ggcaagagcc	actgtgcccc	7200
gcccacccct	ctgtaaaacg	ggtttgca	taggtcccct	gtggcactga	ctcctctatg	7260
gtcagggatt	gggtgctggt	gctcacctgc	ccatcttctt	ggatgaggag	gaagaggaga	7320
aggtcttggt	ttgcatcatg	gtgctgccac	tgccatctgc	aaaaaagggg	aaggggcacc	7380
aggtgagggc	ctgggctgga	catcaggaga	tgggatggga	ggctgtatgg	aggggtggtg	7440
atagccgcag	gcagagaaga	gaaagtgacg	gcacagttga	agacacggag	agagagctca	7500
aggaagagcc	ggaggagggt	ggcggacagg	caggcaggca	cagggcgaca	ccagggtggcc	7560
ttactctccg	agcgcctcac	gaaactcgac	tccactgtgg	tgggtcgggc	cgtccgtgtg	7620
ccatcatctg	caggggcagg	ggagagaag	gatgtgaaag	gcacaggggg	ctgggggagg	7680
atgtgttccc	accctgagcc	ctgggcccgg	cccatttggt	cccttactgg	agtggacgag	7740
ccgctcagtc	ttggtaacag	tgctgacagc	agagccatca	gctgcccgtc	ggctgtgcct	7800
cgtggtgctg	tcagttggct	tggtgcccgt	ccccctccct	ggccggcccc	gtgtcctg	7860
gagcgcgcgt	tcccgtcctt	gttcccgtctg	gtctgggcag	gggatgcccc	atgcattcgc	7920
aaaagggcca	ccaacaccca	cacagcacag	atgcacagggt	gcatggggca	cacaagacgg	7980
ggtggagggt	ggcttgtag	aaacatgaat	gacacaggta	acaagggcct	ctctaggagc	8040
agctgggggtg	aggggacagc	cataacttga	caggggaatgg	agtgtgggaa	gggtttgatg	8100
gactcaggca	gaaactagag	aatacggagt	agctaaactc	aaaggggtat	ggatccaaaa	8160

agggttttcta	taggcatgag	tagctaagtc	aggaggggta	tctagatcta	gtgaggggggt	8220
agctgagtc	aaggaaggag	aagctgagtg	aggaagtagc	tgggtgggc	atcagcaggt	8280
ctttggttg	aggagaagag	cagctggagg	caggaatatt	tagatccagg	aagggagcaa	8340
ttgatgggat	ctgagaagca	atctgatcca	ggggaagagt	agctgggaga	gaagctagt	8400
aaggggggta	actgggctta	aaatagaagt	aggtgggtag	agatagagac	tgggtgggc	8460
atcagtgggc	cctggcagaa	gcagctagat	tcagaggagt	aattgagagt	gtttgagagg	8520
agaagcaatt	gaacccagaa	tctaagggaa	tgaatagatg	tgtccaggga	agaactatct	8580
gggggaggaa	gtagtgtgt	ccaggaaaag	ggaagctgga	tggggcagag	gctaagatgg	8640
ccatcaatgg	acttcaggga	gagaggagca	gcaggagaa	gggtatctg	gattcaggga	8700
aggagtcgtt	gacagtactt	tgagaggcaa	ctggatccaa	ggagagagta	gctgcgggag	8760
ggagtatctg	ggtctaggaa	ggagaagaga	agctgggttg	ggagaataac	tgggtcacc	8820
agcgggagag	aaggagctag	ggaaggagca	gctggatcca	gcagggaata	gccaagggaa	8880
ctgctgggtc	tagagaagga	gaagctgggt	agggcagtta	ttaagctggg	gtgtccacaa	8940
atggacccca	gagtatgagg	ggagcagctg	gggaatgggg	cagctggatc	tagggtaggg	9000
caactggctc	tctacctctc	ttcctttgtc	ggagctcacg	aagtgcagcc	cggatgagct	9060
tccgctcttc	aaagtccgtg	ctctgatcca	gctgcatca	gagcccatca	ttgcctacct	9120
ggtgcctgct	ggcctctgcc	aacccccagc	ccaccggatc	tggtataacc	atcttgtcca	9180
agactccttc	atcctcaata	gtcatcagct	cctcagcgct	cagagggctc	cgcccttctg	9240
gtgctttgtt	cactcgggtc	tgctcagccc	cattggccgc	ttccactgct	gcagcgagag	9300
gctctgtctg	ctctgcttcc	atctgcaggg	tggggagagg	gcatggactt	taagcagggg	9360
tatgggtgaa	actcatcatg	tctccaatgg	atagggaagc	agatcctagg	gttgctggca	9420
cgctttgaa	ataaccacta	gcctgccagc	ctgcctgccc	aaagatggcc	atgtcagcgt	9480
cagtcaggga	agaggcactg	acagttttgt	tgagggctt	cccacgtacc	ccgaattgta	9540
ttaataacaat	ggatagtgat	aataatgatg	atttccagtc	catagtaagt	gttgataaaa	9600
cactagggac	tttactgtcc	ctatttaaca	gaagggaagg	ccgggcgcag	tggctcatgc	9660
ctgtaaatgtc	aacagtittg	gaggccgag	tgggagggat	cacttgttgc	cagcagtttg	9720
agaccaacct	gggtaacata	gcgagaccgc	atctctacaa	aaacaaaaat	aaaaaattag	9780
ctaggcatgg	tggtgtgcac	ctgtagtccc	acctactcag	aaagctgagg	taggaggatt	9840
acttgagccc	aggagttaga	ggctgcagag	agctatgatc	atgcagctgc	actccagctc	9900
gggcaagaga	gtaagaccct	gttgcaamga	aaacaagacc	ggaaaaaaa	aaaaaaaaa	9960
cagaagggga	aactgaggct	cagggcagct	aactgacttg	cccacagtct	ctctctaagt	10020
gtgatgcagc	ctgggatctg	agctgaaggc	agcctaactc	ctgaacctta	gttcattttg	10080
ctgctttgtt	cccagccccc	tcccaggcag	gctctgctct	gtgctgccag	ttcccgaagc	10140
ctaggctctc	ctgggccagt	gcccaggcag	cacatgttgc	cccccatctg	cctgctacct	10200
tgccaagagg	gctggcccgg	ggcctgtagg	ctcctgacca	ggtgtctgac	tggggctgcc	10260
ctgagccaag	acctctatga	agctctcctc	tgtaccacct	ccccctgcct	cgcccctgct	10320
ggaaaccatc	ctctaaggag	ttctagccc	tgcagccctc	ccagggcac	tccctagccc	10380
cttgaagaca	aggccccaag	ccaactatta	tggcccttcc	tctcctggca	gggcctctcc	10440
gtctgtctata	agggtaagga	gagctgaggt	ggcagctggt	tcagggaggc	ttggtctggc	10500
caggggtgcag	ggcggcagg	agctgggggc	tggggcctgg	gtcatgccag	ggctgcca	10560
ggcagctgcc	acacatgcct	cagggctgga	gcctggcacc	ctcttgccct	agtcttagag	10620
cactagtgcc	ccagtcccct	gtcaagatag	ataaactgag	gctcagagaa	ggtggtgaca	10680
tacctaaagt	caagaggagg	cagagcctgg	ctcaaaaacta	ccccctccac	caaccagaa	10740
gcacttacga	gactagtgt	gcgggtggtg	ccggtggagg	agcggcgggc	ggtgctgaag	10800
gcaggtgggt	gggccacggg	ggtcccggca	tcctcggcag	cctgaaagag	ggcctcgggg	10860
tcggcgcgag	ccagagcgag	ctcgctgggc	tccagctcag	gctcaaggcc	ggacacaagt	10920
gggaccccca	gccgtaggct	cagcacctcc	acctgcctgc	tcagtgatc	cagccgccc	10980
ctcagtgtctg	ctctctctgc	ccgcagctct	tcagctgccc	gggccaccgg	ctccacgggtg	11040
gctacagcta	cctcggtctg	ctgggtcact	gccacccggc	ctgcttcagc	caccgcccgc	11100
agctcctcca	gtgcccggcc	caactgctcc	tcaagggtctg	cggccagctc	aggcccaggc	11160
cctggtaccc	ccggcatggt	gctggtgggg	actctatggg	gggtaatggt	ggggcagtg	11220
caggggctgc	tgtctctggc	tgagtgtctg	agtctttgca	gctggtccga	gggcaaaggc	11280
aagggcagcg	ggcctgcccc	gcccctgcct	cccagccgc	caccagccag	ctggagctgc	11340
agcccaata	ctgggctatt	ctgggctcct	ccgtggaagg	gcagtgggg	gagggggggc	11400
ctgccaagc	aggcggtatc	ccaggcctgg	ctatagccct	acagaaatca	taggcctgca	11460
gcacagtaag	actgcatggg	ttctgaagat	cactgagatc	ggggcccat	gcctcacagg	11520
tggggaaact	gaggcaggga	acagggaatg	gacctggcct	agccaccatg	tacattagct	11580

gtgagaatca	gtctgctgga	ctccacagcc	tgtactcctt	taccctttac	cctaactcca	11640
gctgttttag	acagctggaa	cagatggggg	aaatggaggc	acagggaggc	aggactttga	11700
gtgatctgct	ataaaaagtg	tcttggtctt	acataaatgc	cctctggcct	gcccattggtg	11760
ctcacgtcca	accacagact	ttgagcaagc	acattagggt	tacatcacct	gtcccccttg	11820
gttccagatg	ggtaaaactga	ggcaagttgg	tgggtgtcaga	cccaggtctc	actgtggcac	11880
ctcccatcca	cctcaagggc	ctcagcgggt	ccccccacc	cacccacac	aatcccctgt	11940
cagagggcag	ctggatcctg	cttttttggg	aaggaagggg	gctttatttc	cctcactctc	12000
tcctgtctc	ccctgagaag	gccccaaagt	ggtctagcca	tctcacctca	gccaaagtcc	12060
cattcagtcc	ctggtttagc	acagagggca	ttacctgggc	agccgggtgg	cccgttggg	12120
gatccccctt	cgggtgagc	tcccggctag	tggatcctgg	gcttgggaat	gaataatgga	12180
aggggtgctg	gtattcagtt	cccaaggcac	ctgctagget	gctgcctcac	ctgattggcg	12240
ccccctgccc	tgctgtgccc	ccctcagagc	ttctgcccac	ccccacagg	gaggttgacg	12300
cagatgctaa	tcactaatct	ccaatctcct	aatgggcccag	gctgatcttg	gatgagcaga	12360
tgagctgctc	tatacctcgg	ggctgatgtc	cagtgtgggt	gggagcaggg	gcactggggc	12420
tgccacagga	agaggggagc	aagcccttac	cacctctctc	gagcctcagt	ttccccatct	12480
gttaccagg	aatgaaccaa	ccaatttcga	actaaggatc	agagatcagc	atccaggaag	12540
cttaacgcc	gtacagagta	agcttccgac	acacttaggg	actgatatgc	tagggtctgg	12600
ccttagctct	gccaccgact	ggctgggtc	tgtgagcagc	caccttccct	ctctgggcct	12660
cggtttctct	gtgtgtgcag	taggggagga	gcagaggaac	cctgctagcc	ctacacctg	12720
aagcagtgt	tgtgaggctg	acggatgggtg	aggctgggtg	ggtagaggag	ggctcacctt	12780
gatgctgcag	cctcctcggc	tactgggggg	ggcatggctg	aagctgggtg	catgatggac	12840
actgccagc	cgagccaggg	tcccagggct	gttgacacgg	gtgatgggtg	tcttgcccc	12900
actactgggt	ctgagtaggg	tcggggggcg	ccgcagcccc	agtgtcagtt	ctgagtgggg	12960
agaaaggtg	ctgtcaggag	gatcaggtgg	agtgaaggga	gtgccagaca	aggttgataa	13020
tgccctcgct	cccagcacac	cctttggaga	caccttagt	cctggccgca	gcacctgtcc	13080
tgcatgcaga	agtgcggtg	caggcactca	tcccattgg	ggaggcagtg	gggggcgcct	13140
acctgccctc	tgggtgcctg	tgggcagcag	caccggcct	gtggaggcct	ggccacggcc	13200
gtccttgatc	tcgatgggtg	atgtggtctt	catactgcc	cctggctcggc	agtgccgac	13260
ggccacgggc	agcggggcac	caggctcctc	tgaacgtgcc	acaggccccc	ctgctctgtt	13320
ttcaaggggc	ctagcagcca	agccccggcc	cctggggccc	tcctcctggg	ggcagcttcg	13380
aagctggggc	aggggctggg	ctactcctcg	ttgctccttg	ctgaaccggg	aggaggtatc	13440
actggggccc	cgagaggagg	agccgctgga	ggaggaggca	gggtggtgc	tggtagggga	13500
ggggcccaga	agccttgccg	gggtcagggg	acttagggca	gcctgggggtg	tgccatcctg	13560
gagcctagca	gccataggag	aatcagatgt	gaacttgtgg	acacgatccc	gcacagagcc	13620
agcccgtctg	aatgaggaag	gtccgctggc	aaggggggtg	gacttagaa	ggaacaggag	13680
ggctgtcagc	aactgggtgg	gacagggctc	gcacagatcc	taggcagggt	gagaataggt	13740
agtacctcgg	ttctgggctg	gttggcgggg	gctgagcacc	gacagggagc	gttggcaggg	13800
tcggggcca	gccacgtctg	gcaggttggg	gaggggggtg	tggccatgtg	gggaaagaga	13860
aaagacagg	gatagtgggt	gtccaccttt	cataatcctc	tcctctacac	ctccctagct	13920
tcccaccctt	tcctgtactc	aacccccacc	ccacctctcc	atccccctct	ggatctccca	13980
cactccggca	tccccactcg	gctgcatctc	tcctacaggc	acctccttct	cctgccacac	14040
tgaccctagg	atgacttggg	cactcctggg	ggccaggcga	ggcttaggct	ggaggaaggg	14100
tgcccagatc	ctttctgcag	atggggaggg	gggacagccc	tcctggccag	tgctgccac	14160
agctccagct	gggagatggg	tggactccct	tattggggag	aagaatgtgc	ctgaggcccg	14220
ttgcctttca	aggctgcagg	ggaggcctct	agccatgggg	gtggaggggg	aggctggcct	14280
agctgggggc	ggggacactt	caggggtggg	gtgcagtatc	agggactgca	tggacctgag	14340
gaagctagag	ctgccaggca	caagagccca	ttttctaggc	agggaaaagg	aggcagggg	14400
aggggaagaa	agatgcctgt	gactaccctt	gctgggaccc	tcacctgctc	tcttgggtgtc	14460
agaggggcct	ctgggtgggg	tctgggcagc	agggtctctt	ttggggccag	acagaagctg	14520
caagggagaa	gaacagggcc	tgagcaaggc	ctgactccca	gacctgctca	cttgccctggc	14580
atccctgccc	ctcatccaga	ctcaccttgt	tgaccacctg	gccctcagtg	ctggggagcg	14640
ttggagactc	ctgaggctca	gggctgggtg	tcttgggtgg	gctggggggg	ggctctgggc	14700
tgctgggaac	ctcagctgta	aggcactggg	cctcggcagg	ctccaatgga	ggctcaggag	14760
aggcaggggt	gggtgaaactg	ctgggtgagg	caggtgagct	ggatgtgtct	ccaggtgggg	14820
ctcgcagcag	gagtgctact	gtggtcacat	cctggctggg	gccttcaggg	gtgggggttg	14880
gctttgaaac	ctctgcctgc	tgttctctgt	cctctcgtct	tggcacctgt	aagggaacca	14940
caggtgcaa	ccaaggctcc	ctaggctttg	aacgccaccc	ccaccactga	gggccaggct	15000

ggcaagtgcc	cagggcaggg	catgcaaagc	agagtgggtg	ggcatggctt	cctgtaggca	15060
cacctgcgca	agcactggca	ctggcatgct	aagggcagtc	tctgatcccc	acttcccaat	15120
ctcttggcac	tacctagcca	aaggggttca	gagaggacca	ggtcctgatg	tcagtgggtg	15180
ggtatggcag	gagacctatt	ggggacggga	gccttaatat	atccctggag	tggaggttcc	15240
tgaactcctg	cctcagcctg	gttcatctgg	agtgggagtg	gggtcctgcc	aggaccgtgg	15300
accagcggc	ctctgctggc	cadtggggga	acctgcatgg	cctgacctct	caccacact	15360
ctggaaaata	gagtgaactg	tgagccagct	gggtctgac	atgcaggccc	cataagccaa	15420
ggtaaagatg	tgggctgtgt	ggaggggtgag	gggcagccct	gggacgggtt	gaagcagggg	15480
aggtgccagg	gccggatttg	catttctggg	agatccctct	gactgctaaa	taggagctgg	15540
atggcagggg	tgggcccctt	acagtgaat	accagcctag	caaagacact	caggcactct	15600
gtgctaccgg	tatccatggg	cacaggacac	tgggccactc	tcccaccctc	cttacctcac	15660
actgttccag	cctgtgtgcc	gctagcccc	tgtgtcctc	tcttgagcca	ctgttgggag	15720
gccctgtgta	caacctcca	gccaaggtgg	cagctggaag	ggaaggagca	agtggcaggt	15780
gagtgacagg	gaggtgctgt	ggacagcaga	cagcagggca	ggggtggggc	cgggacaggc	15840
cacataccct	caatctcctg	agcccgtaca	cggcggatgg	cagctcggat	cagcttgccg	15900
tcctcatact	caccagcgct	tcgcaactgt	gggtaagaga	caggctcgcg	gtgttgggct	15960
gtggagtcca	ggtcttcacc	tgccctgccc	ccatccctg	ccccagcctg	ggcctcacca	16020
gtgcagtcaa	tctctccaca	tcgttcatgg	actccagctg	ccctgccagc	cgtgccaggg	16080
cagcccgctg	ctcagcttcc	cgtgctgag	agctgcagag	acatcatgac	tgtaaccacc	16140
actgccatgg	ccaggtcgtg	gaggatgtgg	gctaagggtg	ggagccagaa	cagagtacct	16200
agaaccttgg	cagaagggca	tgtggctgtg	cacacctct	aactgcacac	tgatacacat	16260
atgcccattg	acgtgggcac	taataccaca	cactcagacg	tgctggctac	atcagcacgg	16320
ccgcgacgcc	acaatcagta	catgctccat	gccacaaac	attctgttt	ttccagaagc	16380
gtgtgtggac	gtactgccat	tagcacatgc	aatccacaga	tacacttgtg	ctcacgcctg	16440
cctgcacaca	tgagctgagc	cagggctcac	actcaccttc	tcacccgcat	gttccacccc	16500
ccgctactca	ctgcaggcac	ttctccttgt	tgtcctgcog	ctcggcacgg	aaacgcttgg	16560
atgccagggc	ctcctcctcg	cgtccagct	cctgcccgtg	cagttcccgg	atggctgagc	16620
ggatgcgcgc	ccgctctgcc	agatctgctg	tgacctccag	ctgcagtggg	tgcgagaggc	16680
aggtcatttt	ggctgccagg	ggcggagggc	tggcaccagc	tgcccacggc	tctgcctagg	16740
gcacaatgtg	tggcctgtgt	ccactccctg	tgtcccaagc	tcttcacgtg	cctgcctgcc	16800
cacgcagggt	cccgggggta	gacccagccc	actgtttcag	ggatcctggg	tagtccactt	16860
tgcattgtgg	ttcacagagc	acacaactgt	gagtggacag	ccagaaactg	cccacttgtg	16920
ccagttgcca	agccaggcac	tcctttctac	aactcgattc	ctgcctctca	gagcccagat	16980
ccccaaaagt	cagggagcta	ttgtaggagg	aggaggagg	ccacctgtg	ggtcactaac	17040
agggtcccta	gagggaaagg	tgacagatga	agtccaccct	ctgagcaagg	gaggctccct	17100
ggtctagtca	ccaaacacca	cagcccagct	gggggttgac	tgcttcatcc	acagatgggg	17160
aaactgagga	caggtgctca	ggagtcctgc	ctggctgagg	gctattgtcc	ccactgcact	17220
ggcctggacc	tagccaccat	ggaagaagcc	agggtgcaga	gtgggaggac	caatccccc	17280
gacatataag	gtggctggca	ctaggggcca	ccccagggcc	ttatagaggg	catccctggg	17340
tgacagctgc	ttctaccggt	tctcaacccc	tcagttcccg	ggaaattggg	ggtgactggt	17400
ctaaccagggt	tcaggaaaaga	acaccttctc	tggagtgagt	cagccaatcc	tggtgcctcc	17460
cccacacctc	caccatgtag	agccacctgc	tacatacaga	tcctccgtgg	ctcaaggagg	17520
agaggactgg	cccagggttc	ccctggaaga	tagtggcaga	gataagcctc	cagtgtgggt	17580
ctgataacca	gacgggagcc	agtaaaagcg	gggtgatttc	ctctgtcccc	accccccaaa	17640
tcattcaggg	gtagggccaa	agaacctct	atcatctccc	tttttagcgc	ccccccgtca	17700
ttcctttctg	cttagcggga	aggccagggt	gcaagggtgg	ggatgggatg	gagatagttt	17760
tcagcaggga	gtgtgggctg	gcccaactca	gccatgagcc	agcttgctct	agtctgaga	17820
gagcagggag	agtcttgggg	gaagagccct	ccaggctcca	cattcctgag	gaattatgag	17880
aagacccctc	gaaactcagg	ccagagccct	tagttggttc	cagccctagt	ccaatcctgg	17940
ctgggtgatc	aagagcatat	cccttaaact	ctctgtgtct	tggttttttc	atttgccagt	18000
gggtgggggt	gggaacagtg	acttggcctc	tctgtacat	agctgcagtt	gcaataagca	18060
tcacccccat	acttggttct	agccagtcag	gaggaggagg	agagacaagg	gggcaaatgg	18120
gaagggcagg	ataccccgag	gcatacagtaa	catttatgga	gagcctgtga	gtcaaaccct	18180
gtgctgagcc	ccctacttgt	cctaagccca	caaaaaccct	agatactact	gtattccca	18240
tttgacagat	gaggagattg	aagtccaggg	aggacatgtg	atttgctcat	ggtcaaatga	18300
cctgagccag	gatttgaacc	caggtctctc	tgactccagg	gcctgcctca	ggctgaagat	18360
agctctgcta	ctggggtctg	tgtgtcatgg	tggggacctc	agggatcctg	gcactgtgtt	18420

ggagaccct	ctagcctgga	ctagagatgc	tctgaggcct	aaggaggcct	tatagcagag	18480
gcgggggaa	tgaggctcac	tcccagccc	cgggtgctgg	ctgtgtctca	ggcctagagc	18540
cttctgtggt	acatttggag	gctgggggct	ggaggggaca	gaggggtccag	ccccttctgt	18600
acagagggta	aagaggccca	gaggggcaag	ggctagcctt	ttgtctcta	ggtccccatt	18660
ctcagtgtc	tgggtcggga	gatgggggtcc	ttgtctctga	caaaagcctg	atgtaggaa	18720
ttggccacct	ctacagcaca	accccggag	cttcagtgtc	cccatctgga	aaatgggagc	18780
ctccctctga	tccccaaaag	tgggtgggca	aggctggaga	ctgacaacct	cattccactg	18840
gtcacctct	ggcacgaccc	ttcccttttg	gcctggaggc	aaaggttggg	ccacagtgtc	18900
tcctctgtgt	gtcccagatt	ccaccgccc	aggcccacc	gctgtgtaag	gagggagctg	18960
tgggagggag	ggaagggaag	acaaagcgcc	attgtctacc	gagggggaag	gggaagggga	19020
tggggcggtt	tccgaaactg	cccagtgaag	ttctcccggt	ggaaagagg	gtgcttctc	19080
cccctgggga	gccggctctc	cgtgtactct	ctgcccctgc	tgttgggaac	gcctggcagg	19140
ccctgaggtc	tcagtgggcc	caacagcaca	acggaggggg	ctctccaggc		19200
tttcagctccc	agctccccc	gttgcccatg	gggggtccgc	cggcggtgga	gggaagcctc	19260
gccagggggc	gctgaaggcc	cgcaggttct	gcgaccgccc	tcctctgcag	ggcgccgccc	19320
tcgcctcgcc	caccctgcct	cgcgctaggc	gccgaagggg	tagccaggta	ggaagacacc	19380
cgctaccgcc	tgcttcagtg	tccgcatcta	aagggaagaa	accaaggtcc	ccaggacacc	19440
cagctgagtg	gcggaggtcg	aactcgaact	cgggaagcag	gcagagggcg	tcccggcggg	19500
tgggtggagg	gcacgcggcg	tgcaagtccc	caggcgctcc	cattcctccc	atccccggcc	19560
caatcctcaa	gaatgtgcgg	gagccggggc	cggaagcgac	tgcccgcgtc	ccaaatcgg	19620
ccagacgtcg	gggcgcaggg	cggcgcgagc	gggcctagct	tttccttata	tggcccggcc	19680
ccgcggggag	gagcccggct	cgggacgccc	ccgttcttgc	cacgaggcca	gcggggggcc	19740
ggccggcgcg	cggggcgag	taatggcggg	cgcgggtgct	tggaggagcc	gctcccgggg	19800
tcggaagac	ttcgagaggc	accgatcccg	agaccggggc	aggttctcat	ctgtccttct	19860
ccagagattc	aaccactgct	ccagcttctc	tccaaaactc	ttttccagcg	ccgcccgcagc	19920
ctcgcttaag	agaggggagg	ggcggtgaa	gaacctgag	cctgcctgtg	gataccttga	19980
gatgaggatg	tgcgggaacc	aggcctggca	ttccctcttt	ttggactgtg	ctgcctctac	20040
gacccctctg	gggacttgga	cttcctgagg	gaaggtcgaa	ctgactggcg	ggcacctttg	20100
gaaacctaac	ctcatccctc	ccaggtcgca	cacatcctgc	ggtgatagtg	gagaggcaga	20160
caccagaga	gtctaatacg	ctggtccgag	aacatacagg	cagagtgcct	tggggaggct	20220
atggcagcag	ctgggcaactg	cccagtggct	gggctacgct	ggttggttcc	agcctctgcc	20280
tgcgggggaa	ggtatgagag	tgggggggt	cacttgtctt	ctaggtaaag	taaattcttta	20340
attaccccc	atggacaagg	gtcagggact	gaggagatgg	agctcctctg	gcccctctc	20400
caggtcaggc	tgcctggcct	ttggggtttg	ggaaggagcc	ctgcccact	gggttgccct	20460
acggcctctg	tgcactggag	tagacagggc	tctcaggaa	aggaacaaga	aagggttg	20520
agtgggtcga	tctttcctcc	acctgagatc	tgggtccatg	cctcattctg	tccccatgcc	20580
aactctagga	cctagagctt	gtgtgcaaac	acatctccct	ccctcccttc	attttacagg	20640
tagaggaaact	gagactcaag	agtagaaaaa	tgagatgaga	agccacagaa	tccataaggg	20700
cccacaaaac	ctgtctctct	cttatggcct	cgtccagcct	tgactttccc	aggactctgg	20760
tcccccggtg	cccactatgg	ggttgggatt	ttggcacagc	tccttcttag	atgggtgtcc	20820
ttgagcaggt	gattttaact	ctcttgagtc	gcagtggcca	ggctttcaga	gctgctgtga	20880
ttattctgtg	acatggtata	cccagtaccc	agcctgcccc	ctgccaggcct	tggcattat	20940
taatcattgc	tgctaccatt	atcaactggc	cagcttccag	gggtgggcat	tgcccagact	21000
attgctctgg	agaggcata	ccagcctccc	cacacctgtg	gctgcatacg	ggcgagtcta	21060
cagcagttac	tgtttaaaca	ggtgggtggc	gtggaggggt	gggagggact	aggcttcagt	21120
accaggcatg	gacaggcaca	tgccacaagg	gcctctgcat	cagccacatg	gaactggcct	21180
accctgttc	ccatgtcccc	ctcctcctga	cctttccccc	atcacttctt	cctgtcagct	21240
gagaggtaac	ctggattgac	cctgcctctc	tggcttggct	ttcctgtccc	cacagtgggt	21300
gatggggcca	cttaccagct	tccgaagggc	tccctcatcc	agccagcta	aggcctcgtc	21360
cgcctctctg	ctggccccc	gctccgtcgg	ttcctttctg	gtgagatccc	cagtgcctgt	21420
ggcacctgtc	accagctcag	agaattctgc	aggggacaga	catgaatcag	gcatgctggg	21480
gcttcagaa	accacaggca	cttaggctct	gtgccttact	ttccctctct	aacctaggag	21540
cgtccattac	tgctccatcc	tataatgtgg	ctcctggctg	gaagctgccc	tctgcccctag	21600
ggtgggttgc	tggaaaactc	accaaacc	gggtaggggg	tctctggttc	cagccctgcc	21660
agcttggccg	ccagtctgct	gtgtggcctg	ggatggactc	tcctcctgtc	taaactcaa	21720
aacagggagg	gcaggggact	ggattgagaa	ggcagggcct	ggcaagacc	acccaagctg	21780
tgcttaccac	caggggggtgc	actccagctc	ccagtttctc	gccccacca	cccatccaca	21840

gggcctaccc	agccccacc	cactccgcag	gctcagcttc	tggtctgtggg	ctgaacccgt	21900
agttcttgc	gccaccacca	ctgtcattcc	cccaggtata	ggaaggtaca	ctgtgtcttc	21960
cgattcttgg	agccagctct	gctgtccaga	cctcctgaag	ccaggtgtcc	aggcaccag	22020
cacctcctgc	caattcatac	agaattcaat	tccccacctg	gaagggcttt	cagaagctga	22080
cctgcccac	ccctggattt	caggcaaaact	gagaagattg	gagagggcca	aggatttgct	22140
actgagcaag	gaggaagcca	aagacttaga	gggagagaa	ggatgtaatc	aaaatcttcg	22200
tcatctccgg	cttccgaagc	tcccttccaa	agtgcctca	agggcctgga	acactctcag	22260
tgacagaggc	aagagcccca	tcttgcccca	gtgctgcca	tcaaaatgga	cccctaaatc	22320
ctggcccagc	ctcccagcgc	agatctctcc	ttcctcctgt	agccccaaact	aatgtctgtc	22380
tggaatttga	ggggccctgg	tctggcacac	tgtggatgct	tagttaatgt	atgggtgactg	22440
actaatgtgt	ggccccaggc	ctgcccccca	cctcctgttg	attcatcttt	caatcatccc	22500
ttccctctct	tcagaacagt	cacttgggaa	gtcaccccat	acggtgcatg	ggtgggggggt	22560
gagggttacc	gctccacaca	gttgggggtg	gtgggtccca	gcctgttcaa	gtcactgctt	22620
gttccccctc	ccatcctggg	aggctcagag	gtgtcaacct	cccaatctct	gcctgttagg	22680
atccttgctt	cttacctagt	tactctgtct	gggttaaacc	tcttcaagac	tgtccagtgg	22740
tcaccagcct	taggttctgc	ggacattctg	attcccccca	tgtctgttct	tctatggggc	22800
agctgaccct	aatgcctaata	ctaggacacc	catgggatta	taagaagatc	cctgccgctg	22860
ctcttctcca	atctccctgt	cacacagtct	ggggtcgccg	gacattgtga	ggggcctcag	22920
gattctgtgg	cagcttcccc	agggtttctg	ccgccacaga	ctagcgcccc	tgtggggcgt	22980
ggagtctctt	aggaatccgg	ggggtcttc	ccccaacagt	ctcataactt	tatcccatgg	23040
cttagaccctc	tcgtatgggt	gggggtctcc	aggtctggac	gttccagaac	tcctgtctag	23100
acatccgggt	tccacccccg	gacacgttgg	ggcagcacca	ggatcccccc	cgagggtccgc	23160
acacccacct	ctcagtcag	cccacccgtc	cggcgcaggc	tcggcttagc	tcttcggga	23220
cccgcagac	ggattagaca	cgcgcaggcc	ggaggtgccg	cgacccgctg	tcccaggccc	23280
gctcagcaac	cgtcccctgg	attctgc				23307

<210> 1951

<211> 1122

<212> DNA

<213> Homo sapiens

<400> 1951

ccagggccca	gcacagaaag	ccggccggtt	tgatagacgt	gttccctctg	cgctccttga	60
gccttccact	tgtgctacct	cccaggaagc	cgaaggccgc	agagtccctt	tcggatggca	120
ctgggagcag	gaaaatgagg	tgattatggg	ctgctgtctc	aagaagtatt	ggcagctggt	180
gctggggcgg	ctccctgggg	tgatcatcct	ttcttgctct	tgtggatggg	accagagca	240
ccccacttca	aagactctgt	aagccagggc	ttaccagaga	aagctgaaga	gtctagggcc	300
aatttttaate	agtttcttgt	gcttctcatg	ccaaaagaga	tgattgtcct	cactatagtt	360
catcctatag	tgccggcggg	ctgactcgct	actgcctctt	aatgttctgg	gagagaagct	420
gttgggtctt	tcctacctaa	tctggtagaa	atgttagaac	agaggctaata	ttggggaaat	480
aaatctctca	atttttttga	gttgctttgt	gtgtgtgcgc	gcgcgcagat	gtgtgtgtaa	540
ggggcagggg	ctctaagaaa	gaaagaaaag	gaggcgagag	gaggaaagaa	cctgtttcag	600
tttccagggc	tctggcaagg	tgactgagga	agcgccaagc	cccttgccct	ctttgggctc	660
tggttacctc	atcagtaaca	ttagaaggtt	ttatacatga	tttatccctt	tttattcagc	720
tcttatagtc	tataaatctc	cagtaagttg	tggaataaaa	ctgtctttta	aaaatcttta	780
aaaaaccatt	ttccggccgg	gcgcggtggc	tcacgcctat	aatcccagca	ctttggggagg	840
cagaggcggg	tggatcacga	ggtcaggaga	tcgagaccat	cccggctaaa	acgggtgaaac	900
ccgctctcta	ctaaaaatac	aaaacattag	ccgggcgtag	tggcgggcgc	ctgtagtccc	960
agctacttgg	gaggctgagg	caggagaatg	gcgtgaaccc	gggaggcggg	gcttgcagtg	1020
agccgagatc	ccgccactgc	actccagcct	ggcgacagag	gcgagactcc	gtctcaaaaa	1080
aaaaacaaaa	caaacaaaca	aacaaaaaaa	acaaaaaaa	aa		1122

<210> 1952

<211> 1120

<212> DNA

<213> Homo sapiens

<400> 1952

ccagggccca	gcacacagaag	ccggccggtt	tgatagacgt	gttccctctg	cgtccttgca	60
gccttccatc	tgtgctacct	cccaggaagc	cgaaggccgc	agagtccctt	tccgatggca	120
ctgggagcag	gaaaatgagg	tgattatggg	ctgctgctcc	aagaagtatt	ggcagctggt	180
gctggggcgg	ctccctgggg	tgatcatccct	ttcttgctct	tgtggatggg	aaccagagca	240
cccacttca	aagactctgt	aagccagggc	ttaccagga	aagctgaaga	gtctagggcc	300
aattttaatc	agtttcttgt	gcttctcatg	ccaaaagaga	tgattgtcct	cactatagtt	360
catcctatag	tgccggcggg	ctgactcgct	actgccctct	aatgttctgg	gagagaagct	420
gttggtgctt	tcctacctaa	tctggtagaa	atgttagaac	agaggcta	ttggggaaat	480
aaatctctca	atttttttga	gttgctttgt	gtgtgtgctg	gcgcgcagct	gtgtgtgtaa	540
ggggcaggg	ctctaagaaa	gaaagaaaag	gaggcgagag	gaggaaagaa	cctgtttcag	600
tttcacaggc	tctggcaagg	tgactgagga	agcgccaagc	cccttagcct	ctttgggctc	660
tggttacctc	atcagtaaca	ttagaagggt	ttatcatga	tttatccctt	tttattcagc	720
tcttatagtc	tataaatctc	cagtaagttg	tggaaataaa	ctgtctttta	aaaatcttta	780
aaaaaccatt	ttccggccgg	gcgcgggtgg	tcacgcctgt	aatcccagca	ctttggggagg	840
ccgaggcagg	tgatcacga	ggtcaggaga	tcgagaccat	cccggctaaa	acgggtgaaac	900
cccgtctcta	ctaaaataca	aaacattagc	cgggcgtagt	ggcggcgcc	tgtagtccca	960
gctacttggg	aggctgaggg	aggagaatgg	cgtgaacccg	ggaggcggag	cttgacagtga	1020
gccgagatcc	cgccactgca	ctccagcctg	ggcgacagag	cgagactccg	tctcaaaaaa	1080
aaaacaaaac	aaacaaaaca	aaaaaaamac	aaaaaaaaaa			1120

<210> 1953

<211> 2979

<212> DNA

<213> Homo sapiens

<400> 1953

tttcagagga	ccttatcatg	tccttcaactg	tatccatggc	aatcgggctg	gtacttggag	60
gattttattt	ggctgtgttc	atttgtctgt	ctcgaagaag	aagagccagt	gtctccatct	120
cacagtggag	ttcaagcagg	agatctagg	cttcttacac	ccacggcctc	aacagaactg	180
gattttaccg	ccacagtggc	tgtgaacgtc	gaagcaacct	cagcctggcc	agtctcacct	240
tccagcgaca	agcttccctg	gaacaagcaa	attcctttcc	aagaaaatca	agtttcagag	300
cttctacttt	ccatcccttt	ctgaaatgtc	caccacttcc	tgtggaaact	gagagtcagc	360
tgggtactct	cccttcttcc	aatatctctc	ccaccatcag	cacttccac	agtctgagcc	420
gtcctgacta	ctggtccagt	aacagttctc	gagtgggcct	ttcaacaccg	ccccacctg	480
cctatgagtc	catcatcaag	gcattccag	attcctgagt	agggtggtt	ttggttttt	540
tttctttctt	gtcttgtctt	ttattgaaag	gaaatcaaaa	ataggctaaa	cagaattttg	600
agggcatggc	ccaaataact	catgagttcc	aagttgaaac	atggttgtgc	aagttggaca	660
ttacaatgta	aaacacattt	tcttcaaaca	cgttttccct	tttgtttcaa	aaaatgta	720
attttcccc	aagcgtttta	tatttatgta	ttttgtattc	aatgtgaggc	ttattaaaaa	780
tagtgattct	aatgtaagaa	tcagctaaga	tgcattatat	atattttaat	taaaattaaa	840
acttcagata	tttgtggatt	acaatcctca	tttacttcca	atgtgactaa	aaagagaaaa	900
aaaatcactg	tgctacttta	aagaaaaatc	ttctaaggga	tttggaattt	actttcttta	960
gaatgacaag	tgaatcatat	tgacatttta	caatcttaga	tttttctttt	tttttctttt	1020
gagacagggt	cttgatccgt	cgcccaggcg	ggagttgcag	tagcatgac	aggactcact	1080
gcagcctcta	tctcccaggc	tcaagtaatc	ctcccactct	agtgcctcaa	gtagctggga	1140
ctacagggtg	gcactaccac	accgggttga	attttttttt	aatttttagta	gagatgaagt	1200
gtcactatgt	taccaaggct	ggtctcaaac	tcctaaactc	agatgatcct	cctgcctcgg	1260
cctcccaaag	tgctggaatt	agcctggcca	atcttggtat	tttaattgaa	tatgtgggca	1320
caaaatgaca	gaacatagga	cattctaaag	ttccttgatt	tgatattat	aagaagtgtg	1380
ggactcaagc	acaggaaact	gaactctttt	ggtgtcattg	gatgtttcat	ttttgacact	1440
aattttttct	ggacaaaact	tttatgtgtt	tttcccaaga	atagttatct	acttcctgga	1500
ggcaaaatcc	ttggatttac	taacatgatg	atttaccctt	tcttcaccgt	tgtcgtttaca	1560
ttgttagaaa	agcaaacagga	aaaaatccaa	ttcatttgac	ctaaaaacaa	gcctcaagtt	1620
taaaaccaag	ctcacgtttt	tcttaaggga	aaaattttct	ttcttaaact	tacatctagc	1680
aacttggaag	gcactttctc	tggggatctt	cttttgtaac	tttgacagca	aataagtatg	1740
agtcactggg	gagagagttt	gttattgaaa	tagatgttg	ccatgaagaa	ttctccttcc	1800

tggattgact	cttaatcatc	aggcatcatt	cctgggtttgc	ttctctacga	atctcaattc	1860
caacttctct	gcagagtctg	tacagtgatt	aagccatgcc	agatggctct	tgggtgcacac	1920
agttatttaa	gaatccactt	ccacaggtgg	ctgcccttgt	aaggaagaat	gcatccctaa	1980
atgtggccac	cagagagttc	cagtgggcag	atgtctgtgg	ctgcccttct	catttaagga	2040
catgagttca	ctggagtatt	actcaaaaag	tctgtgtgtc	atttccagta	ttgtgaatat	2100
ttagtttatg	tggccgtttc	tttgtttctt	tgaacagtgg	gattttcagt	gaaaaagtac	2160
cctctttttc	atttcttatt	gcagtgggtc	ca g taatatag	tgtctgaaca	tggttcaaga	2220
ataagagatt	ccatgtagca	ttttctttat	tattttcatt	tcccttatat	tatccatcat	2280
tccttaagga	caattattct	taataatgct	tatagaaaat	gttctcta	taa	2340
aaaaggaaaa	agtaagagaa	agagggagca	agaagaaaat	ggaagaaaaa	gggaaaaaag	2400
ctaaccggat	aaccaatttg	ttataagttg	gttttcaaca	aagaaattta	gcagccaa	2460
aaggtttcaa	gggaatatta	acttgggtatc	agggtacttt	tttttttttt	ttttttactt	2520
gcatgtcatc	cttaatgtct	aacatgcatt	aacagcacag	agtatggttt	ttatcaagaa	2580
tttgtgttgg	gagtaaaaac	tgctttatag	ctcccaaatt	aggaagagaa	gagcagaaat	2640
cctctggggc	atttaacat	ctggcagaat	tgttgcgtga	cccttatccc	agttataaga	2700
cagtcaaaat	gactatggcc	taaatattgc	gagtgtatga	aatgtgaaat	taaagcaaaa	2760
actggagact	ttgaatgtat	ttatttaatt	agaaatgcta	agcggatcgt	gaaataaa	2820
tacatttatg	cgacgcggt	tccaaaatcc	atttatgaaa	taatgccaac	actgaactta	2880
aaagcttgga	cctataacat	ctctaatacga	cattcgctgt	gtagggcaca	ttggacgcgc	2940
gatggtgcta	tgggaaccctt	tcttatttaa	atgtatcgc			2979

<210> 1954

<211> 2983

<212> DNA

<213> Homo sapiens

<400> 1954

tttcagagga	ccttatcatg	tccttctactg	tatccatggc	aatcgggctg	gtacttggag	60
gatttatttg	ggctgtgttc	atttgtctgt	ctcgaagaag	aagagccagt	gctcccatct	120
cacagtggag	ttcaagcagg	agatctaggt	cttcttacac	ccacggcctc	aacagactg	180
gattttaccg	ccacagtggc	tgtgaacgtc	gaagcaacct	cagcctggcc	agtctcacct	240
tccagcgaca	agcttccctg	gaacaagcaa	attcctttcc	aagaaaatca	agtttcagag	300
cttctacttt	ccatcccttt	ctgcaatgtc	caccacttcc	tgtggaaact	gagagtgcgc	360
tgggtgactct	cccttcttcc	aatatctctc	ccaccatcag	cacttcccac	agtctgagcc	420
gtcctgacta	ctgggtccagt	aacagtcttc	gagtgggctc	ttcaacaccg	ccccacctg	480
gctatgagtc	catcatcaag	gcattcccag	attcctgagt	aggggtggctt	ttgggtttttg	540
tttctttctt	gtcttgtctt	ttattgaaag	gaaatcaaaa	ataggctaaac	agaatttttg	600
agggcatggc	ccaaataact	catgagttcc	aagttgaaac	atgggtgtgc	aagttggaca	660
ttacaatgta	aaacacattt	tcttcaaaca	cgttttccct	tttgtttcaa	aaaatgtaat	720
attttccccc	aagcgtttta	tatttatgta	ttttgtattc	aatgtgaggc	ttattaaaaa	780
tagtgattct	aatgtaagaa	tcagctaaga	tgcattatat	atattttaat	taaaattaaa	840
acttcagata	tttgtggatt	acaatcctca	ttacttcca	atgtgactaa	aaagagaaaa	900
aaaatcactg	tgtcacttta	aagaaaaatc	ttctaaggga	tttggatttt	actttcttta	960
gaatgacaag	tgaatcatat	tgacatttta	caatcttaga	tttttttttt	tttttctttt	1020
gagacagggg	cttgatccgt	cgcccaggcg	ggagttgcag	tagcatgatc	aggactcact	1080
gcagcctcta	tctcccaggc	tcaagtaatc	ctcccatctt	agtgccccaa	gtagctggga	1140
ctacaggggt	gcactaccac	accgggttga	attttttttt	aatttttagta	gagatgaagt	1200
gtcactatgt	taccaaggct	ggtctcaaac	tcctaaactc	agatgatcct	cctgcctcgg	1260
cctcccaag	tgtctggaatt	agcctggcca	atcttggatt	tttaattggaa	tatgtgggca	1320
caaaatgaca	gaacataagg	cattctaagg	ttccttgatt	tgatcattat	aagaagtgtg	1380
ggactcaagc	acaggaaact	gaactctttt	ggtgtcattg	gatgtttcat	ttttgacact	1440
aattttttct	ggacaaactc	tttatgtgtt	tttcccaaga	atagttatct	acttcctgga	1500
ggcaaaatcc	ttggattttac	taacatgatg	atttaccttt	tcttcaccgt	tgctcgttaca	1560
ttgttagaaa	agcaacagga	aaaaatccaa	ttcatttgac	ctaaaaacaa	gcctcaagtt	1620
taaaaccaag	ctcacgtttt	tcttaaggga	aaaattttct	ttcttaaact	tacatctagc	1680
aacttggaag	gcactttctc	tggggatctt	cttttgtaac	tttgagaca	aataagtatg	1740
agtcactggg	gagagagttt	gttattgaaa	tagatgttgc	ccatgaagaa	ttctccttcc	1800

tggattgact	cttaatcatc	aggcatcatt	cctgtttgc	ttctctacga	atctcaattc	1860
caacttctct	gcagagtctg	tacagtgatt	aagccatgcc	agatggctct	tggtgcacac	1920
agttatattaa	gaatccactt	ccacaggtgg	ctgcccttgt	aaggaagaat	gcacccctaa	1980
atgtggccac	cagagagttc	cagtgggcag	atgtctgtgg	ctgcccttct	catttaagga	2004
catgagttca	ctggagtatt	actcaaaaag	tctgtggttc	atttccagta	ttgtgaatat	2100
ttagtttatg	tggccgtttc	tttgtttctt	tgaacagtgg	gattttcagt	gaaaaagtac	2160
cctctttttc	atttcttatt	gcagtgggtca	cagctaatag	tgtctgaaca	tggttcaaga	2220
ataagagatt	ccatgtagca	ttttctttt	tattttcatt	tcccttatat	tatccatcat	2280
tccttaagga	caattattct	taataatgct	tatagaaaat	gttctcta	taaacatgcc	2340
aaaaggaaaa	agtaagagaa	agagggagca	agaagaaaat	ggaagaaaaa	gggaaaaaag	2400
ctaaccggat	aaccaatttg	ttataagttg	gttttcaaca	aagaaattta	gcagccaagt	2460
aaggtttcaa	gggaatatta	acttggtatc	agggctactt	tttttttttt	ttttttactt	2520
gcagtctatc	cttaatgtct	aacatgaaaa	atcagcaaa	agtatgggtt	ttatcaagaa	2580
tttgtgttgg	gagtaaaaa	tgcttttatg	ctcccaaatt	aggaagagaa	gagcagaaat	2640
cctctggggc	atttaaccat	ctggcagaat	tggtgctgca	cccttatccc	agttataaga	2700
cagtcaaaat	gactatttcc	taaatattgt	gagtgtatga	aatgtgaaat	taaagcaaaa	2760
actggagact	tttaatgtat	ttctttaatt	tgaaatgttt	tgtggattgt	gaaataaaaa	2820
taaatttatg	tcaagtttta	ttcaaaaatt	atztatgaaa	taatgccaac	actgtcttaa	2880
aaagcaagga	gtcaagaaat	tataaaaatt	agattaaatc	aggaaaacac	attagatgga	2940
aaattatact	atagaatttg	agcttattaa	aatttattgc	ata		2983

<210> 1955

<211> 207

<212> DNA

<213> Homo sapiens

<400> 1955

ggccggggcgc	ggtggctcac	gctgtaatc	ccagcacttt	gggaggccga	ggcgggcaga	60
tcacctgagg	tcaggagttt	gagaccagcc	tgaccaacat	ggagaaaccc	tgtctctact	120
aaaaatacaa	aattagccag	gccgtgggtg	cacatgcctg	taatcccagc	tactcaggag	180
gctgaggtag	gagaatcgct	tgaacct				207

<210> 1956

<211> 216

<212> DNA

<213> Homo sapiens

<400> 1956

ctgcccccat	gcagtggtag	tcaccgttct	gtcccccgcg	ggtgctggtg	agaaaggtaa	60
aagggcggtt	ccagagcctg	agggcctgtg	agtgcagttt	acataactgc	cgaaacttaa	120
ggaagcgtct	aaataaaaag	aaacatgtta	acccaaaatg	gtttatttgt	tttttttttt	180
ttttgggttc	cagagctcat	gccaacatgc	aaaaaa			216

<210> 1957

<211> 3598

<212> DNA

<213> Homo sapiens

<400> 1957

atggggcggc	cctggccaga	agcggaggag	gtggcaccgc	ggaccgagct	gggtcttgg	60
aggaagagag	ggtgagggga	atacagtact	gggggtgaga	gaagggttgg	acagaagagg	120
gtcgggtatc	tggcatgcg	cagggccgca	ggactcttgg	tggggtagcg	agggggacgg	180
tcccacgact	gctccgaagg	gccgggactc	ccagtggggg	cgggaccccc	ggagtgcgcg	240
cctgcgga	cccaagctg	gagcctgggg	agaggggtgg	cacctccgtt	ccgcacacc	300
cgtccatggt	gtgtgcgcg	agcgtccagg	agccacggcg	gtgtcttctt	tgcgctctt	360
ttacacgtgt	gggggtagcg	tgctcctcgg	ggctgagccg	tggccagggt	tatggagagg	420
ccgcctctc	cccagatggc	gtcgtcgagc	cctgactccc	catgttctg	cgactgcttt	480

gtctccgtgc	ccccggcctc	agccatcccg	gctgtgatct	ttgccaagaa	ctcggaccga	540
ccccgggacg	aggtgcagga	ggtggtgttt	gtccccgcag	gcactcacac	tcctgggagc	600
cggctccagg	tgggttagac	tttatggggt	gctgggaggt	gtggcagatc	tctgcattct	660
tttaagacct	tcttccctgc	tccccacacc	tgggaggctg	ccagaagtag	tggaagagca	720
tgagctttag	gtctaccaac	ctggacctga	gctcattatg	tagcctcagt	ctacctcagt	780
tctctcttct	gtaaaatggg	aatgagacct	tcctcaaagg	gatctataag	gtaattggca	840
gagtgccaca	ctcgaggggc	cgccccctta	tgagtggacg	ctccttttct	cctccctcac	900
ctccagtgc	cctacattga	agtggaacag	gtgtcgaaga	cgcacgctgt	gattctgagc	960
cgtccttctt	ggctatgggg	ggctgagatg	ggcgccaacg	agcatgggtg	ctgcattggc	1020
aacgaggctg	tgtggacgaa	ggagccagtt	ggggaggggg	aagccctgct	gggcatggac	1080
ctactcaggt	gcagaccctg	cccttcctca	tctgcctgac	acaccagaaa	tctaggggct	1140
gagttttgac	ctggggcccat	ccatccctcc	cccagcctgg	ttcacagggg	cctcctcctc	1200
tctgcagact	ttgccttgt	gccttcgtga	agaaggctgc	agcagcagcc	acctttgggc	1260
ctctcctggc	ccagaaatag	agcagtgggt	atztat	tttcagttga	aatcttacat	1320
agagtcccaa	tttataaaaac	cagtaaatagt	ggatggagca	gctctgggtg	gagagaggtt	1380
aggggctcag	gacacttctc	tctctgaaac	tgtgtttcag	gccttttcat	ggaaccctca	1440
aagcatagca	catggaacca	gagcattgaa	agccactggc	ataattgcat	ttgatacgat	1500
cagtgccagc	agatttgctg	tgtgacttgg	gcctatcacc	aaacctctcc	gggectcttc	1560
tgtccccctg	agcttctgcc	accagccatt	gatccctctg	tcaccttctc	gtcccttggc	1620
cctctctttt	ccaggcttgg	ctttggaacg	gagcagctct	gcccaggagg	ccttgcatgt	1680
gatcacaggg	ttactggagc	actatgggca	gggggcaac	tgcttgaggg	atgctgcgcc	1740
attctcctac	catagcacct	tcctgctggc	tgaccgcact	gaggcggtgg	tgctggagac	1800
agctgggagg	ctctgggctg	cacagaggat	ccagggtgag	gtgttccctt	tctcccagct	1860
ttgggaagtg	ggagagatgg	taggggcagg	gaggggcccg	atccagggtg	aagcctgtca	1920
ggacatccag	ggagatggga	gatgagccca	cttggggaatt	ctcctccccct	tacttgggtt	1980
aagtcttccg	tgtgctacag	cctgttgctt	cctctgggaa	gccttccctg	acttccctgg	2040
gtggctcagg	ttcctgctta	tatgcaagca	ggtacttctt	tttcatcgca	ttcaacacag	2100
ttgcatgctt	acattttatct	ctgtgattat	tttgtctgcc	tcccccacca	aaacgtaggc	2160
tccatgaggg	taggtagttc	tcttctccac	catgtttctc	gcacctcgcc	cagtgcctgg	2220
catagaatag	atgctcaatg	gtaaatgaac	cactccccga	tctcctccac	agagggggcc	2280
cgcaacatct	ccaaccagct	gagcattggc	acggacatct	cggccccaca	cccggagt	2340
cggactcatg	cccaggccaa	gggctgggtg	gatgggcagg	gtgcctttga	ctttgctcag	2400
atcttctccc	tgaccagca	gcctgtgcgc	atggaggctg	ccaaggcccg	cttcagggca	2460
gggcgggagc	tgctgcggca	acggcaaggt	tagtgaacgg	tggagggggc	tgggggccag	2520
gagggccaca	gcagtgccag	ccactctccc	ctcccacagc	ttccccctct	actccttggc	2580
agggggcatc	acggcagagg	tgatgatggg	catcctcaga	gacaaggaga	gtggtatctg	2640
tatggactcg	ggaggctttc	gcaccacggc	cagcatgggt	tctgtcctgc	cccaggatcc	2700
cacgcagccc	tgcgtgcact	ttcttaccgc	cacgccagac	ccatccaggt	ggaagaatg	2760
aggggtggga	aggctgggga	gaagagagga	tctgatatat	ctcctgtgctt	ccatctgtgc	2820
cctctaggt	ctgtgttcaa	acctttcatc	ttcgggatgg	gggtggccca	ggccccccag	2880
gtgctgtccc	ccacttttgg	agcacaagac	cctgttcgga	ccctgccccg	attccagact	2940
caggtagatc	gtcggcatac	cctctaccgt	ggacaccagg	cagccctggg	gctgatggag	3000
agagatcagg	tatccccccag	ggagtgggg	ctaccttgag	gggatgatag	acctccccca	3060
ctcccagtg	gactctggaa	atatgaagga	actagggagt	ggaagagatt	tcaagactgg	3120
ggagaggagt	tcctcccttc	aaagccagca	actgcctttg	gggaagtctg	gggggtatct	3180
cctttctcct	gcttgtgtga	ggtggtacac	agtcccccct	tcacctggcg	ggaagcctgt	3240
cccgacaga	ctcatctcag	cttcccttgc	gggcaggatc	gggggcagca	gctccagcag	3300
aaacagcagg	atctggagca	ggaaggcctc	gagggcacac	aggggctgct	ggccggcgag	3360
tgggccccac	ccctctggga	gctgggcagc	ctcttccagg	ccttcgtgaa	gagggagagc	3420
caggcttatg	cgtaagcttc	atagcttctg	ctggcctggg	gtggaccacg	gacccctggg	3480
gcctgggtgc	cctgagtgg	ggtaaagtgg	agcaatccct	tcacgctcct	tggccatggt	3540
ctgagcggcc	agcttggcct	ttgccttaat	aaatgtgctt	tattttctct	tcagtga	3598

<210> 1958

<211> 5689

<212> DNA

<213> Homo sapiens

<400> 1958

tttagaatca	ggtggctcac	tgagctctgt	attttgtttc	ctggagcttt	cactggtttc	60
ttccccctgag	ataccccaag	tgacatgaaa	agcatactca	gggcctagag	acactttact	120
ggggatgggc	ttctgtcaca	ggtcagaggt	ctgagaagag	gggcaggccc	cactcctctc	180
cactagtaga	gaaaggttga	cagagaatca	tttcttgctt	ctcttgccg	tagttttggt	240
tgtgctgggg	gcctcagcca	cagaggcctt	gggggctgtg	gctgctcgtg	cccccttct	300
tccccagaaa	gagctttggt	ggcccctggg	aatcaga	catggtttct	tggtgggaga	360
ggaggcctgg	ggtgaggaga	cggcctcagg	gactgtctcc	tccccctgcg	caggagtggc	420
agaagggctg	ctgtccccag	ccatgggcac	cccaggtagc	aggggcagggt	cggtgagggt	480
gggctgcac	tccatcctca	gcaggtgctc	gtctggttgc	ggtgctccct		540
gtgcctgctc	agtcctgct	ccagctcctt	gaggaagcct	gggaggggccc	gggggtggag	600
ggtacagggt	gggtggagcc	ctgggctcag	caggaggggtc	cctgggctca	gggaagtctc	660
tggctggccc	cttgtccctt	gtgggaagga	gcctgaggct	ggggcccagg	actgacacct	720
ggctctggcc	cagatgttga	tctgaacttg	ggtctccct	ccccggacgc	cactgccacc	780
ttagcttccc	tcatgtccca	cagggcagag	gtgggctctg	gggaggtctga	aaaccttgga	840
aagcagggtc	acctcgttct	gagcagaatg	ggccactcag	ctctgggaac	tcctcatcgc	900
ttgaggcttc	atcctcctca	tccgaaatcc	agcgtctccac	cacaggctgc	cgtccagggt	960
ccaggagaag	tggcagggt	tctgtcacca	gctcgctgca	gagcagaagg	agcagaggtt	1020
acccaggagg	gcaccctggc	gtggaggatg	caaagacacg	caccacagca	ctcacacccg	1080
gaggggtggt	ggctcatgag	ctaggttagga	ggtgggggag	aaggtgtcat	ggacaggacc	1140
ccaggtttgc	aggctgagag	gggtctgggc	tgagtttagca	ggtagagctc	agccatgacc	1200
tttcttccca	ccctccactc	cttaccggta	gccatcctgg	ttggtgcagc	tgtttccaga	1260
caggttgagg	atgagaaggc	tctgggggaa	ctcatctgca	cacagcaaag	agagaggaaa	1320
tggggttctc	acttgatctt	agccaaaaga	ccatgaagcg	atgggaatgg	ggttctc	1380
cccacttttc	agtccaaagc	cagtacctct	aggcacaacc	ccttgaactc	cctgaggatg	1440
aaatgtggac	ctgcaggggc	atggctaata	gaagcatggg	cagatgggtg	cagaggggag	1500
ggcaggcccc	acaggggatg	tgtttggtga	gccaggggcg	gtgggttct	accagcttc	1560
aatgtttcta	tcaggttctc	agaaaggtcc	agaaactgga	ggcatgggag	gtcaggagg	1620
ttttccacct	gcctgatttg	gtttcctgcc	agagacagga	agctgtaggg	gaaggaagg	1680
gtacagaggc	agagctgaat	catggaacag	ctggaagaaa	agaggagggc	acctgacacc	1740
ggggcccctg	ggctaggcag	ctgatgacca	gtggggacac	atggccttct	gggtgagg	1800
agtagatcta	ggcttgctgg	tccttgactg	acaaggaccc	aggcttgag	aaatctgaac	1860
cagttctttg	ggatattggc	aggttcccc	aacctctct	ccctgacctg	agccctggca	1920
ccacataccg	caaggagggg	atgcaagcca	ggttctcaat	ttgctggatc	ttattctgca	1980
agaagaaacc	gaagtgggga	aaccaagctg	agatcagatg	cgtcaggggc	cctttacggg	2040
gacaaagccc	caagaccatg	tctactctgc	agctggagat	ctggcacttt	gggaatgatc	2100
accccactcc	ttgaacagggt	tgccactacc	ttaagaaaga	tgattttctt	tccccatgtg	2160
gatggttaag	ggtgtaaacc	tggggatatct	aaacctgact	acgtatctc	ttctgattcc	2220
acaaccaaaag	agtgaacctg	gaatcagaaa	aggaaactaa	gaagccacca	ggaaaacgga	2280
aagggccttg	gtggtggctt	gcatacacag	agagaacaat	gagcatacag	gaacttgacg	2340
gttaaagttt	ctatggggaa	agttgaagcg	agctgggaat	actcaaccag	gggaaggctg	2400
aagatcaacc	aaccaccacc	accaccacca	aacagccttc	aagtaggatc	tgaatgatgt	2460
acaggaatct	tcatagtttc	ctcttcttca	aaacaggaaa	tgggctggag	ctatttaacg	2520
tgaagatttt	agagtagatg	ccaaaaagaa	cttctagatc	aagagaagtg	cctaaagaac	2580
agtggaaagga	gcacagggtca	tgttcaggat	ctattttgag	gaattagtt	tttcaattca	2640
ggaccctatg	tcattcgtct	gggaatggtt	taaatgaagg	tctgcctgcc	tgaacaccag	2700
ggaatgggca	ggatgacctg	gttggctcct	ttcagatgag	acagattagg	tccacagggg	2760
tcaaggggag	gggaagggtg	gagaaagaag	ttaccccttg	cagatagaga	ctgtgaagat	2820
tctggaggcc	ttctaagttc	ctgatagtag	taatccccctc	ccggtccagg	cggacagtct	2880
gcagttcatc	aagagtgtga	aacctgggaa	aagagtcagt	aagggtggtg	ttagagcacc	2940
actcatgtgg	tctcttagca	gggaggatgg	gagacggagg	agggaaagg	tttcaaggag	3000
gggtagtttg	ctgagtcatt	ttaatcagat	gtgagaca	tcttgacatc	ttgagggtgt	3060
gtctagatca	tgaaccggc	ttgacttgca	gactcgtatc	tctattgtta	gcaactgggaa	3120
gggtgagaga	gaggagtaag	ggccctctgg	gaaattgggg	gatggcagct	tatggtttct	3180
ggagagattc	agaggcaaga	gaaaccttcc	tctggccagc	ttggatgggtg	gaggcagg	3240
tgggacagag	atgagacact	gcagaaaagat	ccttccctcac	cttccctttg	agtcgttcat	3300

```

ggagaaaaaa gcacttggtc catccaccca ttcatcatt ccacaacatt gctgagtgcc 3360
tactagagac aaatgacaga gtctctgccc accactaata aagaagcagg gcaggctgac 3420
catggtgggt taccctgtac tcccagcact ttggggaggcc gaggcaggag gatcgctcga 3480
gcccaggagg tcgaggctgc agtgtgccat gattatgcca ctgcacttca gcctgggtga 3540
cagagcaaga ccctatgtca taaaaaaaaa aaaaaaagag gctgggagag gtggctcact 3600
gtaatcccag cactttggga ggtcgagggt ggtggattgc ctgaggtcag gagttcaaga 3660
ccagcctggc taacatggtg aaaccccatc tctactaaaa atacaaaaaa aattagccgg 3720
gtgtgggtgg gcacacctgt agtcccagct actcgggagg ctgaggctgg agaatcgctt 3780
caactcagga ggcagacgtt gcagtgaacc gagatcacac cattgcactc cagcctgcgc 3840
aacagagtga gactccgtct caaaaaaaa aaaaaaaaaa ataggagaagg ccaaaccatct 3900
atgacaagtg gataacagag gcaagtacag gggaaaggaa gaaggaggag gaagaaggga 3960
aagaaggagg aagaggaaga agaaagaaag aaagaaagaa taaggccaaa catccctgac 4020
aagtggataa cagaagcaag tacaggggac aaaggagta cataggctgt gcactaatt 4080
cacagtagga ggaatcaggg aatgcttctt agaggagggt acagatgagt aggcattagc 4140
catgaagggt gggggatatg gggagaaggc atttcaagca gaaggaatag tacatgctaa 4200
tacagccctt ccgaaactcc aatatgcccc tgcagattct aattcagtag atcgggtgga 4260
ggggctgaga tgctccactt ctaacaagcc ccctgtgatg ccaatgctgc tgcctaccc 4320
ctgcaccccc tcccattcac acatactctg agtagtaagg tactaagggt tgagtacaca 4380
gtgtgggaaa ttgtacactt gtggagagtg gccagaaata aggctgaaaa gcagaagtca 4440
actcatgctt aggcattggg atttatttgg gaggaagtct ctatcagtgaatgcctgatt 4500
agatttgtaa tttaaaagga tcactttggc tactcaggag gctgaagtgg gaggattggt 4560
tgaggagttc aagaccagtc tggccaacag agcaagacc catctctaaa aaagtaatta 4620
aaaatacttt actttttgtt tgttttagaa atagggtctc accctgttgc ccaggctggc 4680
atgcaatggc atgatcatag cttactgcag ccacaggtag ctgggttcaa gtgatcctcc 4740
tgtctcagcc acctaggact acaggtgtgc accaccatgc tcagctagtt tatttttatt 4800
ttttagagat aggattctgt ctctattgcc caggctggtc tcaaactcct gggctcaagt 4860
gatcctcctg cctcagcctc ccaaagtggg ggggtgtgtg gagaagggtg aacacggcct 4920
tatctaagac agttgagtga ggatggtgaa aaagaaatgg aattattttg aagaaggga 4980
aatcagctgg gcattaccac tgattgaatg tgtggagtaa ggagagaaac aaagatcagt 5040
tgacaaatca gtacacgtca gggacctggt catcctgagt gtttcagcct tctagcacc 5100
cttttctccc ccatgcactc acatcttctc tgacagttcc ccatcttcag ggaaagtcaa 5160
gttccgctta gtgataaggg cttcagtgat gcagacgccc ccttctctctg gaccctgggc 5220
tgacttccct gtgaaaagat gagtccaact gtgacacttc ctcactcttg gaggccttac 5280
cccgtgttt tccaactgct ctaccaccg tcccacctcc ctactcacct ccagacatga 5340
tctaaaaata aaggctgctg gtctgaggcg ggagaggaac gaaaagagag gtcttggcgg 5400
cccctaagga tggcagaact caggatggca ggaggagaga gaaactcaga gacttaggag 5460
aggaggaaaag ggggttgatt cagagaaaat tgctgggtg aggtcgaaga aaacagtaaa 5520
ttgatgtgaa ggggtctggag tttgaggggt gtggaggggc tttgctggca gcaagctggg 5580
gtgttgtggg caggaatggg tgagaaagga gcagttccta ggaagccgga gtcgttgcta 5640
agagactgga cgccgagtgg ggaggtaaaag gcgggctccg ttggcccgg 5689

```

```

<210> 1959
<211> 776
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (709)..(709)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (738)..(738)
<223> n equals a,t,g, or c

```

```

<400> 1959

```

tacaacgctcg	tgactgggaa	aaccctggcg	ttaccaact	taatcgctt	gcagcacatc	60
ccccttttcgc	cagctggcgt	aatagcgaag	aggcccgcac	cgatcgccct	tcccaacagt	120
tgcgagcct	gaatggcgaa	tggcgctga	tgcggtattt	tctccttacg	catctgtgcg	180
gtatttcaca	ccgcatatgg	tgcactctca	gtacaatctg	ctctgatgcc	gcatagttaa	240
gccagccccg	acacccgcca	acacccgtg	acgcgcctg	acgggcttga	ctgctccccg	300
catccgctta	cagacaagct	gtgaccgtct	ccgggagctg	catgtgtcag	aggttttcac	360
cgatcatcacc	gaaacgcgcg	agacgaaagg	gcctcgtgat	acgcctattt	ttataggtta	420
atgtcatgat	aataatgggt	tcttagacgt	caggtggcac	ttttcgggga	aatgtgagg	480
gaacccctat	ttgtttattt	ttctaaatac	attcaaatat	gtatccgctc	atgagacaat	540
aaccctgata	aatgcttcaa	taatattgcc	aaaggaagag	tatgagtatt	caacatttcc	600
gtgtcgccct	tattcccttt	attgcggcat	tgagcctgtc	tgtttttgct	caccagaaa	660
cgctggtgaa	agtaaaagat	gtgaagatc	agttgggtgc	acgagtggng	tacatcgaac	720
tggatctcaa	cagcggtnag	atcctcgaga	ggtttcgccc	ccgaagaacg	tttttc	776

<210> 1960

<211> 878

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (741)..(741)

<223> n equals a,t,g, or c

<400> 1960

gaaaaccctg	gcgttaccca	acttaatcgc	cttgacgac	atcccccttt	cgccagctgg	60
cgtaatagcg	aagaggcccc	caccgatcgc	ccttcccaac	agttgcgcag	cctgaatggc	120
gaatggcgcc	tgatgcggta	ttttctcctt	acgcattctgt	gcggtatattc	acaccgcata	180
tggtgcactc	tcagtacaat	ctgctctgat	gccgcatagt	taagccagcc	ccgacacccg	240
ccaacacccg	ctgacgcgcc	ctgacgggct	tgtctgtctc	cggcattcgc	ttacagacaa	300
gctgtgaccg	tctccgggag	ctgcatgtgt	cagaggtttt	caccgtcattc	accgaaacgc	360
gcgagacgaa	agggcctcgt	gatacgccca	tttttatagg	ttaatgtat	gataataatg	420
gtttcttaga	cgtcagggtg	cacttttcgg	ggaaatgtgc	gcggaacccc	tatttgttta	480
tttttctaaa	tacattcaaa	tatgtatccg	ctcatgagac	aataaccctg	ataaatgctt	540
caataatatt	gaaaaaggaa	gagtatgagt	attcaacatt	tccgtgtcgc	ccttattccc	600
ttttttgcgg	cattttgcct	tcctgttttt	gctcaccag	aaaacgctgt	gaaaagtaaa	660
gatgtgaag	atcagttggg	tgacagagt	ggttacatcg	aactggatct	caacagcggt	720
aaaaaccttg	agagttttcg	nccccgagaa	cgtttttcaa	tgatgagcac	ttttaaggtt	780
ctgctatgtg	gcgcgggtatt	aatccctatt	tacgcccggg	cgaagcact	cggtcgccgg	840
atacactatt	ctagaatgac	ttggttgagt	actaacca			878

<210> 1961

<211> 150

<212> DNA

<213> Homo sapiens

<400> 1961

cgctcgtgact	gggaaaaccc	tggcgttacc	caacttaatc	gccttgacgc	acatccccct	60
ttcgccagct	ggcgtaatat	cgaagaggcc	cgcaccgatc	gcccttccca	acagttgcgc	120
agcctgaatg	gcgaatggcg	cctgatgcgg				150

<210> 1962

<211> 25211

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (15723)..(15724)
 <223> n equals a,t,g, or c

<400> 1962

gagccaggca	gtgagactgg	ctcgggcg	ccgggacg	tcgttgagc	agcggctccc	60
agctcccagc	caggattccg	cgcgcccctt	cacgcgccct	gctcctgaac	ttcagctcct	120
gcacagtcct	ccccaccgca	aggctcaagg	cgccgcccgc	gtggaccg	cacggcctct	180
aggtctcctc	gccaggacag	caacctctcc	cctggccctc	atgggcaccg	tcagctccag	240
gcggtcctgg	tggccgctgc	cactgctgct	gctgctgctg	ctgctcctgg	gtcccgcggg	300
cgcccgtg	caggaggacg	aggacggcga	ctacgaggag	ctggtgctag	ccttgcggtc	360
cgaggaggac	ggcctggccg	aagcaccgga	gcacggaacc	acagccacct	tccaccgctg	420
cgccaagggtg	cgggtgtagg	ggtgggaggg	cggggcgaac	ccgcagccgg	gacggtgcgg	480
tgctgtttcc	tctcgggcct	cagtttcccc	ccatgtaaga	gaggaagtgg	agtgcaggtc	540
gccgagggct	cttcgcttgg	cacgatcttg	aggactgcag	gcaaggcggc	gggggaggac	600
gggtagtggg	gagcacgggtg	gagagcgggg	acggccggct	ctttggggac	ttgctggggc	660
gtgcggctgc	gctattcagt	gggaaggttc	gcggggttgg	gagaccgga	ggccgaggaa	720
gggcgagcag	agcactgcca	ggatatcctg	cccagatttc	ccagtttctg	ctcgcgcg	780
gcacaggtgg	gtgaaggagt	gaatgcttgg	aacgtactgg	gaactgcacc	aggcacagag	840
aaagcgggct	tgccattata	gtgggttccg	atttggtttg	gaaaacatgg	gcagcggagg	900
gtggagggcc	tggagagaag	gccctaccgc	agacaggggc	ggggtgggaa	ggacggcaga	960
tgctgggagc	acgaggcaat	ttctttatga	cacagaactc	atgctctagt	attcctactg	1020
tttcagccga	agaaaaagaac	cagctgaagg	ggcaggggag	aaggggcgga	ggtatttctg	1080
aggccatttg	gcgtccttta	ggactcaggc	agggaaaggg	ccttggtgct	ctggagccgg	1140
aggtggtg	cctggtactg	ggaccccgga	gctgagcccc	gcgcctcagc	ccacctggct	1200
gtctgccgac	cgtgtgcggg	gcgagtttgc	tcaacaactc	tgccagcttc	tggccctcag	1260
gctgtgggaa	gcttcttccc	ggggcgagac	cactagcttt	ttctaagtat	taccagccca	1320
ggacttggct	gaggttctgt	gtcccccagc	ttggagtcag	atgtgggggt	gaatcttggc	1380
ttcctctcac	tagctgtggt	gcttgacaag	tcaattatcc	ttgagcctccattgccta	1440	
ctttaaagg	gaggtgacaa	tcgtccctac	ggctcagtg	cagcagatgg	ggagatgaag	1500
ggaaaagtct	gttgaccatg	agtgaactta	caatgcaagc	cccgggggga	tcaattgcag	1560
ttttgtccct	gtctgcagtg	tgacctgttg	gtgacattgt	ctttgtctca	aaccacagct	1620
cctggggcag	aggggaaaaat	tctgccactc	acagctgcct	gcccacgctt	ctgtctggt	1680
gtgtgggtg	gcagctttag	taagctctac	tcagctcagt	atagccctct	tccttggtcc	1740
ctgagccttt	gactttctcg	agggatgttg	tggggttgtg	gccaggataa	gaaagggcat	1800
ttcaagttac	cactgtctca	aaacaactgt	tctggaaata	gtgagacc	catcctgaga	1860
ggtgagtaag	cagaggctgt	atgaccacct	gaaccaagcc	cttgaggatg	tttcttctct	1920
ggtggaagt	tggaacagga	gcctcctcaa	gttcatttat	tcattcattc	aatggttatt	1980
ttgtgggaat	cgaatttaga	atgaaaatat	tttttggcaa	gcagaaaaata	attttttagac	2040
caatcctttt	cttttagtca	tgagaaactg	aggcccagag	agaggaggtc	accccagggt	2100
cattagaact	gggtttccag	aactgacact	ccactgcaca	gagtactctc	ccaattcatt	2160
caatttttat	ttagcggaag	gcattttcag	atgggtcttt	gaagcattag	taggagttca	2220
gcgatgatgg	tgctcatgaga	attttattct	aggattagga	ggtaccatga	acaaagatac	2280
agagctggga	aaacagagag	tggaagataa	ggagcacatg	tccacagttc	tttttctttt	2340
ttttttgaga	tggagtctcg	ctcttggtgc	ccaggctgga	gtgcaatggt	gcagtctcag	2400
ctcactgcaa	catctgtctc	ccgggttcaa	gtggttctcc	tgcctcagcc	tcccaagaag	2460
ctgggattac	aggtacctgc	caccacgccc	ggctaatttt	tgtattttta	gtagagaagg	2520
ggtttcacca	cgttgccag	gctagtgcga	aactcctgac	ctcctcagtg	gatccgagga	2580
ggtgatcctc	ccgcctcagc	ctcccaaagt	gctcgaatta	caggtgtgag	ccaccacgcc	2640
tggcctccac	agttctttat	ccaccgtctg	aaagtataaa	tgttacgaaa	acaaaaagtt	2700
ttttttgtga	tttatttgat	ggtagcacct	gacgtgaact	gacatgagat	tatttttaaat	2760
ttagtgtgt	gaatatgcat	attcatatat	tttgctgcat	agattacagt	atgcagctcc	2820
agattcttcc	aagcagactc	tgattgcccc	ttactgcctt	tctaaaatcc	aaacaagttc	2880
tgaggttcaa	aaccgatttg	gccctaaggc	tttgggtaaa	gggggtggac	tctgttctac	2940
tctgactgga	gtccaagatg	catatataca	gagatatggg	tgatggggct	gcaaggtagg	3000
ttgaggtagg	ggccaaggag	gagcatggag	tttgacttg	attcatgagg	ctgtggggag	3060
ccagtgaagg	ttcttaagca	ggtatgtctg	cctgagagca	gttgagagcag	acaagagcta	3120

aaaaccaa	aaatcaccat	agatagtggc	tgctataa	tgtttgtccc	ctccaaatct	3180
catgtggaaa	tttggctcctc	agtgttggaa	gtggggccta	atgggaggtg	tttgggtcat	3240
gggggaggaa	cccctgtgaa	aggcttgggtg	ccgtccttgt	gataatgagt	aagttctccc	3300
gctatgattt	cccttgaagg	ctgattatta	aaaagagctt	ggcacctccc	tctcttctct	3360
cttgcttctt	ctcttgccat	gtgattgatc	tctgcacatg	taggctcccc	ttcaccttct	3420
gccatcagtg	aaagcagctt	aaggccctca	ccagaagcag	atgctgggtg	catgcttctt	3480
ggagagcttg	cagaatcatg	agdgaataa	atcccttttc	cttgtaaatt	actcaccttc	3540
aggtattcct	ttatatagca	acacaaaagg	actaagacag	tggccttgac	ttttctctct	3600
ctttaagaag	tgttgccttt	gctcacttag	tcaccccttc	tgccctgcatt	tgtagagcat	3660
ctggatggga	gatttatata	accgtcactc	ttgactttcc	cagcaggcct	atgtatagg	3720
tactgtggtc	tctacaatac	agcagaggtg	tctgaggtc	cgagaggttg	agtgacttgc	3780
tcatggctgc	acaaccagta	aatatgggag	ctggaattca	ggtccacggt	ttcctggctc	3840
caaagcccat	gattttttcc	ctcaatttat	tctgactggg	gcatggggga	gggggtggcc	3900
tttgggcagg	gccaccagg	gcgaccaggc	ccgtagagag	ctgggtgcag	gtacagagga	3960
aaacctgttg	tcgagtgtgg	cccgtagttc	ccattttttg	ctgaatggca	catttgaaag	4020
tgttatataa	ccatgtgaat	aataatagtt	ggcctatatg	agttttttta	tttgcttttt	4080
ggtccgcatt	tggtaaactc	tttatcatct	actatactct	gttgtgtct	ttttgttgta	4140
atttghtaagt	aggggtgaga	taaagtacac	ctagggtttg	ctgggtttct	tccatgtcat	4200
catgttctct	cttgcatggg	gccaggtacc	gtggaggttg	cctggcacct	acgtgggttg	4260
gctgaaggag	gagaccaccc	tctgcagctc	agagcgactc	gcccgcgcgc	tgaggcccca	4320
ggctgcccgc	cggggatacc	tcaccaagat	cctgcatgtc	ttccatggcc	ttcttctctg	4380
cttctgtgtg	aagatgagtg	gcgacctgct	ggagctgggtg	agccaccctt	tttgggaatg	4440
gcacttctctg	atagggtctg	gccactgcat	atacactggg	gactgtgctt	agtagcccca	4500
ttgctgaaaa	tcagaagggg	acagcaagta	tgtattgagc	actatcggg	taccaagcac	4560
agtaactact	ggctttctgt	atagaattcc	ctttaagcct	ggccatgccc	cagtggtagc	4620
tctatcttca	tttgaaagac	gaggagactg	aagttcagag	gggaccacac	agacagctag	4680
gggtagagcc	tggtacaaac	ccattggctc	gcttgccagc	cattcttgtg	ccaatgcac	4740
tgctgcctac	ggaaacctgt	agggacaagg	ccctgggatg	ttcagtgagg	cctgagtcac	4800
tttataaaaa	agcatgactc	taggggtccaa	aattcctttg	aagctgttgc	tatccagagt	4860
gaagtccctt	ctttaggaca	gggtggccct	cctccctcct	ggatgtcaca	tcttcgggtg	4920
aggggcagaa	aggggactgg	gtattctcct	caccctgggc	ctagtgtctc	aaatcttaaa	4980
aaaacgtttt	tatttgtgct	tctgcaccac	cttctagccc	acctcgtttc	ctggcctcta	5040
acttgatgag	agcgtgtgtc	attttccacac	tgatttccca	catggcaggc	ggtgcttctt	5100
agcctcctgc	agacagttag	gccccacggt	gtgttccaa	gtcacacagc	gtgtaatggg	5160
cagggtcaga	gtctgagtc	tggacctggg	tctcctagct	gcactgcact	gctgccccat	5220
gggttaatca	gctcagcata	ccgtggctga	acagctacct	cataccaagg	cctgtggcgc	5280
catgacaggg	attgacaggg	tccttgccct	ggaaaccctg	agtctaagta	gaggagactg	5340
acaagtcaat	gccttccatc	agtctgtctc	aacacgttt	accaagtgcc	tactgtgtgc	5400
tgcagaggcg	aagatgacac	agctcaggcc	tttcccttga	gcttacagtt	caggaggaga	5460
gactgaccag	tgactgccag	tacagttgac	tatgggacaa	tgtgtctcag	cttggggaga	5520
gacgaagaag	gtacccgtat	agcaccagat	gacaggcacg	agccccacag	gccagggcag	5580
ctgctcagag	gagagttagg	caagcagaag	gcaaacagaa	ggctgcaggc	atttgccatc	5640
gagagctgga	cttcaaaactg	ggcatcatac	cagcctgggt	tcgagtctctg	cccagccctt	5700
tattggctgt	ctaaccctga	gcaaaccctt	tcacctctct	gagcctcatt	cctctatctg	5760
taaaccagtt	ataataattg	gaacattcat	ttaaggacta	aatgaggtcg	tgaagcattc	5820
agcagatgct	aggtacggaa	actcgctgaa	gtgggggcag	gttaagaagc	ctctggggat	5880
acgaaggcat	ccagggacta	gttgtggcag	gaggtgttta	ccacttaggt	ctgaagggta	5940
aggagaggga	atagcttttc	ctctgcccag	ttggagccgg	tggcatggag	gagagggtc	6000
ctgtggggaa	tcacccgagg	gttcaccgct	gccatgcgca	gggagtcagg	aggtagggag	6060
ggagtggggc	gagatgcacac	catttttttt	tttttttgag	actctgttgc	ccagactgga	6120
gtgcagtggg	gccatatctg	cacctctgcc	tcccgggttc	aagctcactg	caacctctgc	6180
ctcccggtt	caagcgattc	tcctgctca	gcctcccag	tagctgggac	tacaggtgtg	6240
tgccaccatg	cctggctaat	ttttgtat	ttaatagaga	tgggggttca	ccatgttggc	6300
caggctgggtc	tcgaactctc	gacctcaggt	gatccccac	ctcggcctcc	caaagtgtctg	6360
ggattacagg	cgtgagtcac	cgtccccagc	tgtgatgca	ctcttgtcct	ttaactcct	6420
gctagtgcct	cccattggct	gagcccaact	ggaagctttg	caaggagct	ggtgctgcag	6480
tttgcactga	gcaggctgga	gaaggctgga	gaatagacta	ggggacaaac	cgaattgccca	6540

gtgctgttat	gtcatgattt	aggcatggag	tccagggcct	gagcttcaact	ccatgtccat	6600
cctgcccaga	gccttggcac	agcctggctc	ccagacaaga	tgtcaagttc	agaatccttc	6660
ctaaaaggaa	tcctctatgc	cagaccgtgt	tgcagggata	tgggggtgct	gggctcccag	6720
cctgatcaag	gagcgagaaa	actcaggctc	ctagtctgtc	ctccggggca	ctagcaggga	6780
caagggtgga	ggctgctggg	ctgggatgtg	gggacagggt	tgatcagta	aggccaggct	6840
gtggctgtgt	ttgctgctgt	ccaaatggct	taagcagagt	cccccgccct	ctctggcttc	6900
tgcaggcctt	gaagttgccc	catgtcgact	acatcgagga	ggactcctct	gtctttgccc	6960
agagcatccc	gtggaacctg	gagcggatta	cccctccacg	gtaccgggcg	gatgaatacc	7020
agccccccgg	taagaccccc	atctgtgccc	tgccccaccc	catctgagct	gaatccattt	7080
gctctgcccc	ggcctggcct	ccctgctggt	ggtttccact	tctcgggggg	ctttgggact	7140
cagcacctcc	actgacccct	ttttttctgt	ccccctccca	tcccctgcag	ccccactgc	7200
ctgccttcct	gttgccccac	aaatgcaaaa	gtcttgccct	aatgatcct	cttttcctcc	7260
ttttctcttg	ttttcctttt	ctcaccattt	ggaatggccc	agcaggctgc	acttaccttg	7320
gaaggagggt	tcatctgatg	gtgactctac	ctagggcccc	caggcctcta	taactcccag	7380
tgccctgcag	actggaccag	atcctttaat	gggatagaca	caaccctgtc	tgggatgcct	7440
ctgcctacct	tcctgttttg	ctgctccacc	tgccctccagc	tccgtttggc	ttcctggggc	7500
tccctgcctg	ggccactttg	tgtcttccct	ctaggccttt	ctttccactg	ttccctctgc	7560
ctggtgtggc	ctggctatgg	aaggagggga	gcaggagcgg	ccatggaaaa	cggcttgcct	7620
tctagcagg	acttgacagg	ggcaattcag	tcggggaga	ctctagatgc	acctggcctg	7680
aggagagaa	gaagggttct	agttggactg	tgttaagttt	gaggtgccca	tgggtgtgagg	7740
tctggagctc	agcgcagaga	tgatgcaatg	tgggtgggtcc	atgcaacatg	gtgccaggac	7800
gcagagcttg	gggtgaactc	agctttcacc	ccttaccggt	tctcgtggga	tcttgggaag	7860
ccactttctt	ctatgagctt	tgtcgttctt	gtctgtaaaa	tgggcacata	acctgttccc	7920
tgtccttctc	acaggttgct	gtgagactcc	aatgagttga	aggatgtgca	gatgcttttg	7980
gaagtgaaaa	gttggggggc	tactgtgtga	ctttgcatac	acccaaactg	tgtgaccttg	8040
catatgtctg	agttgctgcc	attgcaacag	atcagagctg	gtgggctggg	tgtggagaaa	8100
gggtttgtgt	cggggacatc	ctctggcaag	ggtggcagca	gcagaagtga	ggggcctggg	8160
cggcatgtg	tgctgacctg	gcctgggcag	cctgtggcca	gggagaggac	agctcctctg	8220
taggaagagc	gtgttctctt	ccaaccaggt	gagacctctt	cagtggagcc	ctggagcccc	8280
ctgtactcca	catcagtgcc	tcagggacct	ccgggagcag	gctaatatca	gagaccaaga	8340
gggacactgg	cagaggatca	cagagacccc	agtccaggca	gggactgaga	agatcttgcc	8400
ccctaagtta	gtttcctagc	actgctgtga	caaaatacca	ccccctcggg	tggaaacaagt	8460
tgattctctg	cagtcctgga	ggccgaagc	ctgaatcagt	gtcggcagga	ccactttctc	8520
cgggggtgtg	ccagggagaa	gcttctcttg	cctcttccgt	gtcccaacag	cggcagcaca	8580
ccaatcccag	cctctgtctt	cacacagcct	tctctgtgtc	tctctcctct	tcattgtctc	8640
ataaggacac	ttgtcatttg	atttagggcc	cactggatcc	tccaggatga	tctcattggg	8700
ggaaccttaa	ccacatctgc	aaggacctt	tttccaaata	aggtcacagc	cacagtttgt	8760
gggggttagg	atgtgagtgt	atctcttttg	cagccactgt	tccctcctct	cccttggggc	8820
agaagcagac	gtggggccct	ttcttcccca	taggatgccc	atggattgcc	ccccctcccg	8880
cttcccccca	gcgtctgtgg	gaggtggcag	gaatggcagg	caggtgtgtg	gaacccttcc	8940
tggagtcata	tcaaggcctt	ggctggagga	agtcctcctg	gagctgttgg	gctggcatgg	9000
ggcaggctgg	ctgggcccag	cagcagcttc	ttcatctatg	gggaggccac	aagcatgggc	9060
cctagagctg	gctgccgccc	tcaaaccag	acctgcact	cttaactgtgt	gaccttgca	9120
tacgtcactc	acctctctctg	atcttcaggt	tcctctgcaa	aaggagggta	atgataaccc	9180
tcactctggg	gggctgtttg	gagggttaaa	tcagttattg	ctgtagcatg	catttctctg	9240
tcaggtattg	agtgaggtgc	tgtgatttta	gccctgcatt	tttcttttct	taccattcaa	9300
taataacgtt	ttgagcacc	tctgtgcgcc	aggcaccata	ttaggtgctg	gggatacaaa	9360
tgtgaatgaa	atgaatgtgg	tctctttccc	caacagtgtg	tccagaagat	taatccattc	9420
cttaacaaaa	tgctacttga	cacagattag	ttctggatag	gctgagagct	ctgaaggagt	9480
gcaggcagct	gcgagcctgt	gtatccagca	gaaggatcag	gaaagattc	ctggaggaag	9540
cgctgttcta	gccaaagacct	acgggggcat	tattaaccag	gcaaagggga	cgggtgtccaa	9600
gcagtggaat	gaacgtggat	tgaagctgtg	aggcaggagg	gagtggtggc	tgtgcagaag	9660
ggaccgaggc	tgggtgagacc	agcagggcct	gggtggcctc	caggtcagat	gtgaaaggaa	9720
gaacttggcc	acagtctgag	cttctcaggc	gtatggcagg	gctgcctggg	gagagggaat	9780
gagctccctg	ctctggagggt	atgcaagcag	gactgggctc	tcacctgcca	gaggccacag	9840
agctttccag	aggctggaag	aggccactcc	aaggcctctt	tgcccctgag	agtgggtggc	9900
cttcttgagg	ccaccttgcc	acgctgtcac	agggaaactag	cagccccctgc	ctcaccggg	9960

ggtttgggaag	atagagggag	gcctaggaag	ggccctgtgt	ctcatccgag	ctgggcccct	10020
ttccagcctc	tcactggaag	gaagcccaag	gatgttccctg	tgggggcttt	taccaggccc	10080
acctgccctc	tgctggccat	gcttgacgcc	tcctgaccct	gtcccagcag	gacagtgggc	10140
tggtgtgagc	gggcaggaac	cgcctgcact	tagaagggtg	ggggctgcct	ccccgagctt	10200
ccatctgccc	ctggggccac	accccaggcc	cagggatggg	accccatagt	ggtcacatca	10260
tcttgacgca	gaaccaggt	acagctcctg	gagcagatgg	tggtcccaag	cacgggtggg	10320
accagaaagg	actctcacct	gggctaactc	agctgcagcc	tcagttccct	cctcacacac	10380
gaggaacatg	gactggaagc	ctgcccagca	ggccttctgc	tcgatgtgcg	ttgtgtggct	10440
tacgtccagg	gagggaaagca	gcctctgtgc	tgtcttctag	ataagcctgt	attccccggg	10500
ctgtctgcca	atgtatccag	ttgtcccgtc	agcctggaag	ctctgaggga	aaaccttggg	10560
ctgcttccctg	agcacctgta	tccctgcagc	ccagcccggg	gcctctgcta	ggagcagact	10620
gagcatggct	tatgtccctg	gcacatctg	gcctctgccc	accttgctgg	ccttgtcttg	10680
tgtctgcccc	ttcgacattc	catagcccag	ctcaatatct	agtggttcct	ctaggggtggc	10740
gagcactgtt	tggtctccag	atgtcttccg	gtcggagctc	acagcgtctc	cagccacccc	10800
ttcccagtgt	agcaccgggc	acatggtaga	tgcctattga	tgagtgaag	ctcctaacac	10860
actcagagag	caaggactcc	gcctcatccc	acagcctggg	aggagaggca	gactgccaa	10920
gacctgctca	gcatgctaca	gaagaaacca	aaagtccac	gggactgatc	agtggagctt	10980
cctgccgaga	ctggaggcct	tagggcaggg	tagacagtgt	gtgtgcaggc	tggggactca	11040
cagttcggag	tgtgccaga	cctactagca	tagtgggtgg	gtgggaggat	gcgggagctg	11100
gggcccagct	tgcctgaaat	tcagtgtgga	tctcagagca	gccactgaat	tgctctgtag	11160
ggggctaaat	agtggcccc	acagatacac	acaccagac	agagcctgtg	agccagacct	11220
tatttgga	aaaggtcttt	gtagatgtaa	ttaagcatct	caagatggca	tcactctggat	11280
tatgcggtgg	gctgtaagtc	ctgtgatgtg	tctttatgag	agaaaggcag	agggagattt	11340
gacacacaca	ggaggggcca	cgtggagaca	gaggtggaga	ttggagaaat	gtggcacia	11400
gccagggaa	accagcagcc	accagaagcc	ggaagacgtg	aggcagggtt	cttcccagag	11460
ccttcgctgc	tgagtctggg	aatttgttac	cgaagccata	agaagtgggt	acacgcctg	11520
agcctcccac	acttgctcac	ctgtcctgag	atgagaatct	ctactctgca	gcataatttg	11580
aggatcactg	cgggggcac	agaggtgctg	ttcagatggc	acttcagaag	actcaggaga	11640
ccctggggca	ggagcagttt	gactgacagc	ccagagggtc	gccctctgat	tccacctgag	11700
gccctgcttt	tcctggctgc	aggggttcca	gggccaggcc	atttccgctg	gcgcaggact	11760
ctgctagcag	caacctgcct	gaagtcttcc	tttggcctgg	ctgagagtt	ctgagacctg	11820
cgctggagcg	gaggtgcttc	cttccttgct	tcctttcttc	ctctctccct	tctccatcca	11880
gcaggctgga	cctgcctggc	atctgtgagc	tctccctact	ttctcctata	ccctaacctt	11940
tgtcctgcat	gggcgactcc	cccagttagt	tctctgcagc	ttttaccca	gtgcctgctt	12000
ctgttctctc	tgaggttgtg	actcgtgtga	ggcagaagca	gtagggtagg	tgctcggtga	12060
tatcttgttg	agtggagaac	gcttggacct	ggagccagga	gtccccgtga	gccctcctgg	12120
ccgagctgca	gcttcctgtc	tctaaaatga	gccggccagc	gcagtgggcc	agacatcact	12240
gttattctcc	tttgagtctt	taaatcttgt	tgtctttctt	gcagactcgg	tgagctgtga	12300
aaggctataa	taggggcttt	attttacact	ttgatactat	tttttgaaca	ttcatattat	12360
tgtagatat	tgatattcat	atgaaggagc	aggatgactt	gggtccttct	tggcagtagc	12420
attgccagct	gatggccttg	gacagttacc	tgcctctctc	aggcctccct	ttccttgtct	12480
atgaaataca	ttatagaata	ggatgtagtg	tgtgaggatt	ttttggaggt	taaacgagtg	12540
aatataattta	aggcgctttc	accagtggct	gggatgtgct	ctgtagtttg	tgtgtgttaa	12600
ctataaggtt	gactttatgc	tcattccctc	ctctcccaca	aatgtcgcct	tggaaagacg	12660
gaggcagcct	ggtggaggtg	tatctcctag	acaccagcat	acagagtgc	caccgggaaa	12720
tcgagggcag	ggtcatggtc	accgacttcg	agaatgtgcc	cgaggaggac	gggacccgct	12780
tccacagaca	ggtaagcacg	gccgtctgat	gggagggtcg	cctctgcca	tatccccatc	12840
ctggaggtgg	gtggggactg	ccaccccaga	gcattgcagc	tgtactcctg	ggttgacacc	12900
ccccagctgt	cactgtcccc	tccctgccat	cagttgtggg	aagggcgttc	atccatccag	12960
ccacctgctg	atgtgttata	gggtggaggg	gggtcttttc	tcagtgtgtc	cttgtgttcg	13020
tcgagcaggc	cagcaagtgt	gacagtcatg	gacccacct	ggcaggggtg	gtcagcgccc	13080
gggatgccgg	cgtggccaag	ggtgccagca	tgcgcagcct	gcgcgtgtc	aactgccaa	13140
ggaagggcac	ggttagcggc	accctcatag	gtaagtgatg	gccccagacg	ctgggtctctc	13200
tccatctgga	cctggcctgg	gaggtggctt	gggatgggcc	caggagagac	taatgtctcc	13260
taaccaagaa	tgctgtggca	gcctctgccc	cagagccaga	gaaccagagt	gccaaggctg	13320
gcagggttcc	cagtggccac	gagtgacagat	gaagaaaccc	aggccccaag	agggtcatgc	13380

aggtagccca	gggagttcag	ccttgaccct	gggtcaatga	cctttccaca	gttccacact	13440
gctccccttt	taaaatccgg	tgatgtatt	atgtcttttg	ttatgttatc	ttcaatgtgg	13500
agggactcga	ggtgatctaa	gcaaactttt	tctatcttct	gcttgcatat	ctctgagacc	13560
aggggactca	ctcacttgca	tgactggggc	ctgcagggtca	cactggccag	gcagatgtgg	13620
tggaggaact	ggcagaggac	tttttctaga	ctgtgactac	atttagtcca	cccagcggc	13680
cccctatgaa	gtccagttga	gaactaggac	tctggggggc	tgtggacaga	gaagagggag	13740
ggttctctcc	cttactgact	tccttctgtg	gccagacatt	gagcaaggcc	tctgtacagc	13800
atgtcctggg	gctggccttg	ccgtagctgc	taaatagttg	acgaaaccag	tccagagagg	13860
ggaggtgact	gccagggtca	cacagctcaa	gctgggggaa	tcgctgggaa	aactgtcagc	13920
tctgggcagc	agcttgactt	ccattgtaag	ccccagcccc	caggggtcaaa	caactggctct	13980
ggtgctggca	gaggcagccc	actagcctgt	ttcaaaggct	gagaaggccc	aggagtgttg	14040
cctgtgctcc	accagttctg	ccctgagact	ttcctacaga	gtacaggttt	tgtgttcag	14100
ttttaaaggc	aagaataaat	aaccttctgc	cccatcagggt	gaccccttgt	gcctgtccca	14160
cccctttatt	gactgacctc	ggctcagtc	ggtcagttcc	tgaagggtcag	tgtgtggagg	14220
ggaggtgttt	ctttcccaga	aaggccttcc	ccaggcctgg	tgctctggcc	tctggaggac	14280
ttcctggaga	agtcccttct	ttgggggtccc	agtcagtgtg	tgggaagccc	ttattgcatg	14340
acctggcacg	gggtaggggc	tcaacagtca	ctattgcctt	ccttgccact	gccatttctt	14400
cctctgtaag	caggtgattg	tgtgtccagt	ctgagcacag	agataagcac	acagcaggtg	14460
cttaataact	agcagctgta	ggctggggcgc	gggtggctcat	gcctgtatc	ccagcacttt	14520
gggagggcga	ggtgggcaga	tcacctgagc	tcaggagttc	gagaccagcc	tgttcaacat	14580
ggtgaaaccc	cgtctctact	aaaaatacaa	aaattagcca	ggcatgggtg	tgggtgtctg	14640
tatcccagct	acttgggagg	ctaaggcagg	agaatcgctt	gaaccagga	ggtggaggtt	14700
gcagtgagct	gagatcgtgc	cactgcaatc	cagcctgagt	gatagagcga	gattccatct	14760
caaaaataaa	taagtaaata	actagcagct	gtaaatgtgg	ctgttgttct	tcacctccac	14820
actcagtgcc	actccactcc	ctccctccgt	ggtgtgaggg	gcctcactag	ctgtctccta	14880
ggaggagcat	ggctgtgaga	ttccagctcc	atccttgacc	aggctcctg	gagacatctt	14940
agaggccagg	atccagaagg	ctcccacacc	ccatttgaca	ggggagaagc	tgtcagttcc	15000
aggtcccctt	gcacatcagg	gccagagctg	cgttaggcct	ccagtctcca	ggccactggg	15060
ccagagctca	caggctggca	gagggttaga	actgttactg	gtggctgggt	gcaactggctc	15120
acgcctgtaa	tcttagcact	ttgggagggc	aaggcgggag	gatcatgagg	tcaggacatc	15180
gagaccatcc	ttgctaacac	ggtgaagccc	cgtctctact	aaaactacaa	aaaattagcc	15240
gggcgtggtg	gcaggcgcct	gtagtcccag	ctactcagga	ggctgaggca	ggagaatggc	15300
gtgaaccogg	gaggcggagc	ttgcagttag	ccgagatgac	gccactgcac	tccagcctgg	15360
gcaatagagc	gagactccgt	ctggaaagaa	aaaaaaaaaa	agagctgtta	ctgttgacag	15420
tagcatgagg	tagaccatgg	cctgcaccaa	aagggggagt	ggagtgcac	tgaggccaga	15480
aggaaccaca	cctcaagggt	tggggagttt	tggtaggggg	ggtcctaggc	atggagtctt	15540
ttattcttta	gacaatcctg	ggagcagctg	tccctgttca	cagagggcgg	ggccacacag	15600
ctggtgagtg	ggcagccaag	actctgttca	agtttgtgtg	ggtccaacac	ttgcggccac	15660
ggtggagggg	catctgagcc	aggcctcaga	gagtggcggg	gggaagttgg	gtgggggaagt	15720
gtnngccttc	tcatctctct	gaggctcatc	ctcttggtgc	ctctctttca	tggaaagggg	15780
taataagggt	attgtgagga	tcccctgagt	tcatatattc	agacgcttag	acagagccag	15840
gcacagagaa	gggcccgggg	ttggctagtt	tgattgctgg	tgtaatgct	aatatcttcc	15900
agtttgtatt	ggtcaagggt	ctgcagagaa	gcagaaccag	taggaggtat	atattaagag	15960
tttcaagctc	atgtgaccgt	gcgggctggc	aagtctgaaa	tccgcagggc	aggccatgca	16020
ggctggcaat	tctgcagaa	tttgatgttg	caatactgag	tcctaaggca	gtcctggggc	16080
agaattcctt	cttccctggg	aggcctcagt	ctgttctctt	aaggccttca	actgattaaa	16140
tgaggcctgc	ccaagttata	gagagtaacc	tgccttactc	cgtcttctga	tttaaatgtt	16200
agtcacatct	aaaaaatatt	ttcgcagcag	catttccact	ggcttttgac	caaacatcag	16260
gccacaaaagt	tgatccccc	aattaaccat	cactctgtgc	ctgtaaggga	ggggctggga	16320
aaggggagca	ggtctcccca	aggggtgacc	ttggcatttg	tctcccagg	cctgggttt	16380
attcggaaaa	gccagctggg	ccagcctgtg	ggggcactgg	tgggtgctgct	ggccctggcg	16440
ggtgggtaca	gccgcgtcct	caacgccggc	tgccagcgcc	tggcgagggc	tggggctctg	16500
ctggtcaccg	ctgccggcaa	cttccgggac	gatgcctgcc	tctactcccc	agcctcagct	16560
cccaggttag	gtgctggggc	tgtctcccca	agggcggggt	agggggcgga	ggggcgaggg	16620
agggcgggcg	ggcaggcggg	cttcttgttg	cacgtgggct	tcttgtggca	cgttcttgga	16680
ggccgaaccc	ttctggcttt	ggaaggagtc	gtcagagacc	cccgccatgc	gggaggtgg	16740
ggaggaaggg	gctcgaaacc	tccatcatcg	cagagtctga	atagcagtgg	ccccgcgatg	16800

cgcccacgta	gcggggccta	cgtagccacg	cccccaagcc	ccgtccctggc	cactctccct	16860
cctgaaggte	ttctgggtacc	cgccccctcc	ccatctccat	ccccaggccc	tgcgtccctc	16920
gcccataact	ctttgggcct	ccctgtttgtc	cagctctctc	cgcggtcca	tgactgacaa	16980
cttgagcaag	gctaattgtga	atgggagcgg	ttgagggtc	agacctctca	cccagggaac	17040
atccacagag	tgtgccgcat	gcccgggtgca	gtgtggctgc	ggggacacag	acacggagcc	17100
tcggccctga	ggagctgggg	ggcagtgacc	gtccctcctc	tgaccacca	ctcctccagt	17160
gtcaggacac	tgccgggtatc	taggggaagg	aatcttgttc	cacttaagt	ctggaacttc	17220
aagtctgtgt	gtgtgcgtgc	gcgcgcgcgc	gttgggggtg	ggggttgca	agcagatgcy	17280
tacctgacag	cggtaaccta	ggtccccccg	gcctatcaag	gcttccctgg	cggccgaatt	17340
taaaggcatc	aagcaaaca	agcccaacac	atctctgcct	tgtcctctca	gtttcccccc	17400
gtggcactta	gaaccacttg	atacaccgaa	tagtttccgg	tctatctccc	ccactaggat	17460
gtaaactcca	caggggcatt	gggaatgctg	cctggctatg	gtaggacag	aggggagcac	17520
caggggcggg	cagggggtgcc	agagtctctg	ctgggcagtc	agattttcct	taggagggga	17580
catttgagtg	ggacccaaac	aggtgtatag	cagttgtccag	cccagctgg	caaggcctga	17640
gtctgcctct	gcaaccctc	tcttgggtc	ctttctctgc	caccacctc	ctcacctttc	17700
caggatcatca	cagttggggc	caccaatgcc	caggaccagc	cggtgaccct	ggggactttg	17760
gggaccaact	ttggccgctg	tgtggacctc	tttgccccag	gggaggacat	cattgggtgcc	17820
tccagcgact	gcagcacttg	ctttgtgtca	cagatgggga	catcacaggc	tgctgcccac	17880
gtggctggta	agtcaccacc	ccactgcctc	ggccaccgtg	atgctaacag	cccccttggc	17940
agtcagggtc	tgtgccggga	cctccagtc	caggctctgt	gcagggggac	cagagatgaa	18000
gtaggcctga	tgggtgccttc	aaggacactc	agtatgatga	gggaggcgag	tgcacagagg	18060
gaacacgagg	tcagggtctgt	attagaggga	gccagagga	ggcacctgcc	cagcccagg	18120
gtcagagaag	gcatcttgga	ggagggacat	ttgatcgga	gcttgatgga	tgaataggag	18180
tttacctggc	cgataagaca	gcaactacca	aggcttagag	gtgtgagagg	aggctgtctt	18240
acctcactga	gtaaggactg	caggcggtt	accttcgaga	agagagctta	gtgtctgtgt	18300
gcacgtgtgt	ttgtgtgtat	gtgtgtgcgt	gtgtgcactg	gcaggagtcc	cctgctgggg	18360
caggagggcc	gggccatcac	catctttcac	cattcacccc	tgcaccaggc	attgcagcca	18420
tgatgtctgc	tggcgagccg	gagctcaccc	tggccgagtt	gaggcagaga	ctgatccact	18480
tctctgccaa	agatgtcatc	aatgaggcct	ggttccctga	ggaccagcgg	gtactgacct	18540
ccaacctggg	ggccgcccctg	ccccccagca	cccattggggc	aggtaagcag	gatggcagg	18600
tgggcaagtc	caggctgggg	cttgggaggt	ctgtgtgacc	ttgacagtct	ctcccttctc	18660
ccttgtctgt	gtaaggagga	tgatgccacc	ttaaatagga	ttaaatgaga	atggggctct	18720
gaaagggtct	tgcaatatatt	tcataacgtg	tttttataga	gacagttgag	tatgttcttt	18780
aagccctcct	ctctccctacc	atgaactaaa	gattttgtg	gaggtcccct	cactcccagc	18840
acccctcct	catcccaggc	cttttttgca	ggttggcagc	tgttttgca	gactgtgtgg	18900
tcagcacact	cggggcctac	acggatggcc	acagccatcg	cccgtgcgc	cccagatgag	18960
gagctgctga	gctgctccag	tttctccagg	agtgggaagc	ggcggggcca	gcgcattggag	19020
gtgactgtac	ccctccttcg	tgtgtgtgtg	tgtgtgtgtg	tgtgtgtgtg	tgctgtcag	19080
tgctggggccc	tcagggaccc	ccagcaagcc	cctccatcct	ccagactcca	gctcttctgt	19140
aagcttacag	ggctggccag	accaggagtg	gggactcct	cacttcacgc	ggctgggggg	19200
tgctggagag	agccacagcg	ggaagggttt	cctagaggct	gcaggacagt	gctggatgga	19260
ttttcaatgc	tcacctgggt	gtgagcatgc	ggcaggggcg	cgtgagggtc	agcgtctgc	19320
tactctggac	tcagccatct	ctaggccctt	ctcactcagg	tgctccatgg	ttctgggagc	19380
tgagaaatct	caaaccagca	aaaaagtgga	attgatgttg	atgctacagg	atagtgcaca	19440
gatgccatct	ggttgacgca	ttttgggtgga	agggcagtc	ccagctagg	gagtgaggag	19500
gggcaggcat	ttctggcttg	aggagatagg	gtcttaatgc	tcgtgtgaga	ggcagagtgg	19560
gtggagtgga	gctggctgga	tccttgcttt	ggcctcctgg	atctctctct	atctccattt	19620
tgaaaccact	ctgtgttttg	aagaactttt	gagtattcag	agctgcccac	tggcagaaca	19680
gtcttccttg	ggcaggagtg	agctccttgt	ccccagaagg	ctgggtctgg	ctggcccctg	19740
gcaggacac	tgatgagggt	gcttgagttg	atcctgtcta	gtccctttct	gtgttttcaa	19800
agccattct	aaagcagatt	cccatttccg	tctttgactc	taaggcccaa	gggggcaagc	19860
tggctgccc	ggcccacaac	gcttttgggg	gtgagggtgt	ctagccatt	gccagggtgt	19920
gcctgtacc	ccaggccaac	tgacgcgtcc	acacagctcc	accagctgag	gccagcatgg	19980
ggacccgtgt	ccactgccac	caacagggcc	acgtcctcac	aggtaggagg	ctgggcttgc	20040
cctgggtgga	ggaggggtct	ctttctcctt	atgcaccac	tgcccacgag	gcttggctct	20100
cacaagtgtg	atccatgaga	ctcaagcctg	acttgcagtt	ccatactctg	gttctgccac	20160
ttccatgccc	tttgagcctg	ggcagggtgac	cttacttctc	ctcatctcag	cttctcctc	20220

cataagaggg	aaaaaggtat	tacctgcctc	attgtgttgc	aaggagatgg	gcagcatcta	20280
gggcaactggc	ctggagtatc	gcaggtgctt	tgcctaagt	ggtgcagtcc	aggagaggca	20340
gctccagaga	gaggccccc	gctggggctg	aaaggagggc	agacctcgg	ttgaatttca	20400
ccctgccgct	cgatagctgt	gtgacttggg	caaattactt	aacatctctg	tatgaggaaa	20460
tgatgagtg	taagcactta	gcttagtgcc	gggacaatat	aaattctagc	tatcgttact	20520
attgttttca	tcacccgttg	ctttaaaatc	cagtctctgg	tataggcaac	tattgacggg	20580
ctaccctgtg	tcgaaaacat	gcccaggcag	gtagcaggaa	gtcacagatg	gggacctctt	20640
ggggcatcaa	gggatggtgc	cctgaggctg	agctgttctg	gttgggtgga	gcatgagagg	20700
tctgggaaga	cagtgggact	ccagcctgga	aaagaggct	cagagttgat	tctcgtctga	20760
gcacgtccag	gggaaccact	gagggtttgg	gaacaggaga	gtgaggggtga	gaacctgggt	20820
ctggggcacg	caggctggca	tgtaggatgg	atgttcagga	aagatgagca	tagtcagggtg	20880
gctggtgccc	ttgtccaggg	gagaggctcc	gtcaggttca	ggggctctgg	cttggaggga	20940
agtccgccat	gctctaatac	cgctcccctt	tggaagtgtc	cggccgatga	gctcacaggc	21000
acatgtcagt	ttgaagtcac	ggaatctgac	tccatgaagc	gcacctcaaa	gagcaccatt	21060
ttgcagctaa	gggaactgca	ggctggacat	gctgagtggc	tgccccgagc	ccttgacagt	21120
aggacataga	gaatgctagt	aaccacacc	ctaccatgtt	cagagcacat	gccaggctcc	21180
atgctggggc	ttcgcacgtg	tcactctcac	agtgtccctg	tgagttaggtg	tggtttctct	21240
ttccatctta	caaatgagta	aacagagcct	cagtgtagct	aagtaaccac	tattttaggt	21300
ttcttagcca	atgggtgtgt	ctgactccta	agccccatga	gggcattctg	aggtggtta	21360
gacagacccc	agcttaccct	tgaacttctg	cctgctggct	gcatagggag	gggctggggg	21420
gagtttgagc	atctcaggcc	atagagcccc	tgctcactg	tctccatctc	tgggtggaaa	21480
gatggtgttt	tccctgagaa	actaaggctc	agagaggttg	aatggctctc	ccaaggtcac	21540
acagctggtc	agctgcagag	tgagaacac	aggagtccctg	gtgctcaggc	cagcatctct	21600
ttttttcttt	gagttgtttc	taggtttcct	agctcttgcc	tcagacctta	aagagagagg	21660
gtctgatggg	gatgggcact	ggagacggag	catcccagca	tttcacatct	gagctggctt	21720
tctctgccc	caggctgcag	ctcccactgg	gaggtggagg	accttggcac	caagcccg	21780
cctgtgctga	ggccacgagg	tcagcccaac	cagtgcgtgg	gccacaggga	ggccagcatc	21840
cacgcttcct	gctgccatgc	cccaggctctg	gaatgcaaag	tcaaggagca	tggaatcccg	21900
gcccctcagg	agcaggtgaa	gaggcccggtg	aggccgggtg	ggtgggggtgc	tgctgtctct	21960
tcctgcacag	cttttctgtg	tcagtttgtg	ccaccaccat	accgccatac	atcagggtgg	22020
cggtttgcca	ggtagatgct	gtgggcagct	tccgccattg	tgtggacagc	atgtatatgt	22080
gtctctgtgt	ggctgggtct	gtttttgctt	ttgtccagat	cagtaagggt	tgctacctgg	22140
gtaccccact	ccacttgag	tagagtgtgc	ataaatatgg	cataaagaa	tgcaatatgc	22200
atgcatttat	tgatcttatc	atttttttct	atgattgggt	cttgctgtgt	tgcccaggct	22260
ggtctcaaat	tccctgggctc	aagcaatcct	ctggctctcag	cctccccaag	tgttgggatt	22320
ataggcatga	gccgctgcac	ctggcctctc	tgatctattt	aacaaacctg	ctgggagggt	22380
ctcagggtca	ggagcagcac	tgggctctga	ggacacagag	ctcactcagc	cgtgaccag	22440
agggggtgcc	tgagctgcat	gctgaagggt	gttagcatga	ccagcaaggc	aagaaaaggc	22500
cctgccgaga	ttagcaaggc	atgtgccaa	ccctggaatg	tgacagccgg	gccttctaga	22560
aacctgagt	tataactctc	cttaaaaagg	agtaggagct	cttaaaaagg	cagccctaag	22620
gagtcactc	ttaaatgaac	tcagagtcag	ttttaaaatg	caagtctgtg	ttgattctgg	22680
tctggatggt	gcattcctcg	agagcaaaa	acagtcttgg	tcttgatcc	acttgccctg	22740
ggtacactga	gggctgctag	gttccagggtg	ctcttctctg	cactggggag	ggatacaggc	22800
ccaagagaca	tgctgttctc	cctcctggag	catctatttt	agtggaggaa	gacagaaaac	22860
aaaccattaa	tatagagtac	tgaaaagatg	cgatggagaa	aactatagca	aggaagggaa	22920
tggggtggga	gagaggctag	gagaggctc	gctgacaagg	tggacgaaac	aggccatgag	22980
gcagagaaca	tgttccaggc	aaagcaaagg	ccccaggtg	gggatgtgca	gggagtacca	23040
ggaaccaga	gaggtgggaa	tagttatgag	atgggggggtg	cctcagaggg	gacagggcca	23100
agtcagggtga	gacctgagg	ccacagtcag	cagtgaagctg	gggccatgca	ggggtctggc	23160
ctcagaggag	tgtggtctgg	cctggatctg	aacctctcac	tgtggcctag	ctgctgagct	23220
gagaagagat	gacaaggacc	ttgggcagaa	gcaggagagac	tggaggggagg	cgggtggagg	23280
tccaggcggt	ggggcggggc	tcaggctgga	gtctgaagg	agcctgcagg	cctggtgggt	23340
ggatgtgggt	gggagagggg	gaggatggca	ccaaggctcg	ggcccctgga	cagatggagt	23400
tgccattaag	tgggatgggg	caggctatgg	ggccatcagt	ttcagaggga	tgagtttggc	23460
actggcatgg	taggcatctg	tctatctcca	cgccctcaa	accaggcatg	aagcaggagc	23520
tcacgtgttt	ggtcagccat	ggtgcagaac	cgctgggtg	ggaggtgcgg	ggtgggagat	23580
acacggttgt	gtcccaaatg	ggctctgagc	cagcgagggc	cgtctgcact	ttggccctcac	23640

agaaggatgt	cggagggaga	aatgaagtgt	gggtgggggt	cccgggccac	gctagacatg	23700
tgctttcttt	tctcgggct	ctggcagggtg	accgtggcct	gcgaggaggg	ctggaccctg	23760
actggctgca	gtgccctccc	tgggacctcc	cacgtcctgg	gggcctacgc	cgtagacaac	23820
acgtgtgtag	tcaggagccg	ggacgcagc	actacaggca	gcaccagcga	agaggccgtg	23880
acagccgttg	ccatctgctg	ccggagcccg	cacctggcgc	aggcctccca	ggagctccag	23940
tgacagcccc	atcccaggat	gggtgtcttg	ggaggggtcaa	gggctggggc	tgagctttaa	24000
aatggttccg	acttgtccct	ctctcagccc	tccatggcct	ggcacgaggg	gatgggatg	24060
cttccgcctt	tccggggctg	ctggcctggc	ccttgagtg	ggcagcctcc	ttgcctggaa	24120
ctcactcact	ctgggtgcct	cctccccagg	tggaggtgcc	aggaagctcc	ctccctcact	24180
gtggggcatt	tcaccattca	aacaggtcga	gctgtgctcg	ggtgctgcca	gctgctccca	24240
atgtgccgat	gtccgtgggc	agaatgactt	ttattgagct	cttgttccgt	gccaggcatt	24300
caatcctcag	gtctccacca	aggaggcagg	attcttccca	tggatagggg	agggggcggt	24360
aggggctgca	gggacaaaca	tcgttggggg	gtgagtgtga	aaggtgctga	tggccctcat	24420
ctccagctaa	ctgttgagaa	gccctgggg	gctccctgat	taatggaggct	tagctttct	24480
ggatggcatc	tagccagagg	ctggagacag	gtgtgcccct	ggtggtcaca	ggctgtgcct	24540
tggtttcttg	agccaccttt	actctgctct	atgccaggct	gtgctagcaa	cacccaaagg	24600
tggcctgcgg	ggagccatca	cctaggactg	actcggcagt	gtgcagtggg	gcctgactg	24660
tctcagccaa	cccgtccac	taccggcag	ggtacacatt	cgcaccccta	cttcacagag	24720
gaagaaacct	ggaaccagag	ggggcgtgcc	tgccaagctc	acacagcagg	aactgagcca	24780
gaaacgcaga	tgggctggc	tctgaagcca	agcctcttct	tacttcaccc	ggctgggctc	24840
ctcattttta	cgggtaacag	tgaggctggg	aaggggaaca	cagacagga	agctcgggtg	24900
gtgatggcag	aacgatgcct	gcaggcatgg	aactttttcc	gttatcacc	aggcctgatt	24960
cactggcctg	gcgagatgc	ttctaaggca	tggctggggg	agagggccaa	caactgtccc	25020
tccttgagca	ccagccccac	ccaagcaagc	agacatttat	cttttgggtc	tgtcctctct	25080
gttgcccttt	tacagccaac	ttttctagac	ctgttttgct	tttgtaactt	gaagatattt	25140
attctggggt	ttgtagcatt	tttattaata	tggtgacttt	ttaaaataaa	aacaaacaaa	25200
cgttgtccta	a					25211

<210> 1963

<211> 6501

<212> DNA

<213> Homo sapiens

<400> 1963

tctgtttttg	aaaaatttat	tttatactct	tagaagctaa	gaactttgcc	acacatgaac	60
caaatttaga	attaaggttc	ttccctagtg	tatctacttc	cttttgaaat	tttataaaca	120
agattttata	cacaagaggt	agcagaggaa	aattccagtc	tgcttggtcc	aagctcagaa	180
ggtaactgca	cacacctcga	tgttagcagg	gaaggtgggg	caggacaggg	taagtctgat	240
gatacggcac	tctagtctct	aaaactgact	gtagttgtca	gtgaccgtgt	gaggactcca	300
ggagaagtcg	tggtagatg	cccgtcggga	tgcttgtttt	ctttcccagg	atgccttcaa	360
cgggcagaat	cggccatctt	aagatcggcc	tcactaagg	agcttcttga	gaacacacag	420
cattattgag	ttaattgtgc	aattcctgct	ctgtttgcag	accattttga	aaggtttata	480
aaaacatctt	catccaaaaa	attggcagta	aaaatgacaa	ctcttccaag	gtaagcctgt	540
cataactgtc	actgttgtag	tacattaaaa	aaagtcatca	gcaggttcat	tgactgtagc	600
tgtagcaaat	caagtgggta	ccagcaaaag	gaaaacgatg	gtcattgcag	caacaatata	660
agcaacatga	tctgaagcgt	ataatataca	cggtaggacga	tctgatgaa	cctttacagt	720
gaggacggca	ggtgctaggg	gtgcggaagg	cgttgtttcc	ataggaaata	aggggactag	780
aagtggcaat	ttcactcctg	atittgggct	ctgagagtg	cagtcgccag	cgatgatatc	840
ccagtgtgga	tcctgccag	catttcaagg	tcatgtccca	cacaatctct	tggtaggat	900
gtgggaggag	agaaggtgag	aatagggtag	gggaaacagt	aggacaggaa	gtattcacgt	960
actcaaaacc	aatggtagaa	catcacattt	caaactgcaa	gaccattgga	accgtctgaa	1020
gtttgccact	cgctctgtc	cgtttctcta	agggtagagt	tctgctctta	agtgtgggcc	1080
cttccatctt	ctcagtgtgt	ttgacaaagg	ccactgccaa	cctccagcaa	gtcacagaat	1140
aacaatgaag	tctgacagca	cagaaaccct	cactgcgaga	gaatgaaaag	actgggcat	1200
ggcgagagca	cagtaatgag	atgccctctg	cctggccaca	tgccacacac	atgccacagc	1260
agccagacag	gcacttcagg	gctggctgcg	cctctgtgac	ttggcaaatc	tgacagtga	1320
aacctggcac	ttcctaggct	ccctagttct	gtgcatgggt	agatgaaaat	aaggcaggac	1380

ctgtaactaa	aggcaaaaaca	gggccgaaaa	tgtgagcaat	tcaaaataca	aaatgtaaa	1440
aatatatatg	aaatatgtgg	gtgtaaacct	ctccccaca	ccataaaagg	gagctgggtat	1500
aaatgagtga	atgggtgctat	acttttgaaa	tacgactaaa	tggtatgggtta	ttcaattgct	1560
ttatatattat	ttctgggaaa	ataaatctta	aaccttgact	gacttttccag	tgtaatttag	1620
tcatgttgag	gagaaacaaa	ttctcaaatt	ccttctctgc	attacaataa	ctatgaaact	1680
cacaagcagt	gtgtaccaac	tcaaatagtt	aacttcatat	acaaccaata	ccaaggggtt	1740
cagtaattat	gttttaagca	aaagcaaacg	attgcagatc	acatgattta	agactacagt	1800
ttattcaata	tgtctccaag	cattaaaaag	ataattctgt	gaagttaaac	agtaaaat	1860
tatatcttaa	agtgtcttta	ttttgctgtt	tttaaaatct	gtttggggaa	caactcataa	1920
cttctttaag	taattgatgt	caaataatgc	accctgtact	tctggagAAC	acagcatttt	1980
caaaattgct	cttttcaatc	taattatatc	agaaaaatat	cttcaagagc	ttagtatttc	2040
ccaatttttg	atcctgatcc	tggtaacctt	tcatcaagat	ccaagcttat	gcataggggt	2100
ctcatctaga	cccattctgaa	attctataca	aatagggaga	catattaaat	acaaaggtct	2160
gtgtaaaattg	acttaattac	tattttacaa	tgaaaaggaa	ttttattaca	tctttacatc	2220
attttaaatt	ggatattcct	gtttaatat	actgcaagat	taaaaattg	ccccacata	2280
tctaaaagca	gcttgctttt	tcttaaaata	taaaaaccaa	aggaatttct	ttttagcat	2340
cgtagagaaa	gcaacagctt	tatgctcact	cttgatgtt	cgtgtaacaa	aaaagtctgc	2400
cactggctct	atttccgaaa	atctccacag	aaatgtgaat	ccacatatag	accacgctcc	2460
cgggacagct	gatccacatg	cgggagttct	cccactgcc	aacagctccc	aaaccttcta	2520
tgggtctaaa	aatgctttcc	ttgagaaata	cagctccgc	ccaagtcaca	gcagctttcc	2580
cagccaatc	tccaggtct	tccaaaggt	tcgagattct	gattccaaga	aggtgctgag	2640
catccagtat	tgtgtcttga	ctctctcag	gctgggcatg	ttcctctagg	gatcaacatc	2700
atcaaggtea	cttctcaact	caccaatcat	catgggagat	tctgaacct	gcagaaaaga	2760
aaaggaagtt	aaagttcata	cggtagaga	aaagttttc	tatgctgact	tgtgttctgc	2820
aatttaaaca	tgtcttcac	tggcaactta	atgcaatgtt	tatcaaagg	taataaaatg	2880
tgataactat	tacatcta	atttgaca	tcatgattat	gtaaaacatg	tacatttcta	2940
tgatctcatt	tagtcagtga	aacaaccag	cgacttgct	aaagtcacaa	tgctactctg	3000
cacccatgtg	agaacgcaga	gcagtataa	agctgggaga	ggcattgatg	gccattgtgc	3060
ccgcttcacg	ttgggcactg	tgtgagctc	cctgctgc	acctgccaaa	tatgggctct	3120
gggtcactcc	tgggtctgaa	ggctacctc	gttaccatct	gtgtggcctt	tggcttacac	3180
acttggcgaa	tcgttctgaa	tactcacctg	gtgccatggg	gctgatctag	ttggagctgg	3240
ggtggggagg	agcaaggaca	gtctctctaa	agtgaacacc	taagctgagt	gagagttggg	3300
ggtgagtagg	ggggccctga	ggtggaagga	agagagtaca	tttgataaat	aaaattcaga	3360
aaatgggcca	ggcacagtcg	cttatgcctg	taatcccagc	tacttgggag	gctgaggcaa	3420
ggagaatcgc	tggaaacctg	gagaaggagg	tagcagttag	gtgagattgc	accactgcac	3480
tccagcctgg	gtgacagagc	aacactccat	ctcaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	3540
tcagaaaatg	ggggtgggga	ggtgcgcagg	tgctagatca	agcaggactg	tggtgaggat	3600
tctggctttt	ctctcatcac	aaagcctttg	aaagttttta	gtgcatgaac	cagagagaag	3660
caggggtgga	ggtgagggga	tccttacaga	cgtaggcaga	gaggggctga	tgacagggtg	3720
aggagaggga	cgagcaccct	ttcaaaggga	gtgtccggg	atgacatggg	ggtgctgtgt	3780
gtgagataag	gaacactgac	ggagggccag	ctttggtggg	cgcaggagg	aggggctggg	3840
cacatcgagt	ctgaggtctt	taaggtatgc	caagtggaga	acgtcaagaa	caagagagct	3900
ggatgttcat	gttcagaaat	ccaaggtggg	tgcggagaga	atatggagtg	agggcaggag	3960
gatacagggt	agagactcca	caaaccttta	ctggtggtcc	agaagaggca	gtactaggaa	4020
ggagacagag	aaggaacagc	cagaagggtt	tgaggaaaac	tacgagagag	aagtgtcagg	4080
aaagcccttg	aatagtgttt	caaacgggaa	gagcgccagg	agcgctagat	gctgcagc	4140
agtcggctaa	gatgaggcct	gaaagctgca	ggccacctgt	caccccaact	gctgagttgg	4200
agagaagagg	gagttagcag	ggaagaggct	gaagagcgag	tgagagataa	gaaaatgggg	4260
aaagttaagt	ttagagaatt	agtcgaagtt	tggctgcaaa	gaagagaaaa	gaaggcaggg	4320
gcaacaggga	gaagagagg	tttgacagg	cagaagagag	gctttgacag	ggcagaagag	4380
aaaccagtg	gctgagacgt	cgctgggaag	ggtctggcag	ggtggagcgt	tctggatatt	4440
gaagagttac	atacacatta	gaacgcaaag	ctctgccaa	gtgggcgggg	atgagcgcta	4500
ggggcttttg	gtggacagag	gcaaacttcc	cactgtcaca	ggagaggagaca	agaagacagt	4560
gcagatgctt	gggaattagt	ggccgcagg	gctctcctgt	gacagctttt	atcttctctg	4620
caaatgaagt	aggtgatgag	gtaatgtgtg	gagtgacctt	gggctaagtc	acatcactgt	4680
gctgggctgc	agttaccttt	ctgtaaaatc	agggtgacag	ctgcctcaca	tagtgcttat	4740
gaggatccga	aagataacac	ttaaaaaaaa	atgacaccta	ctacatcagt	aacattcatt	4800

taatggggcc	tattctgtac	caagtactgt	gaagggacca	cagaggagac	tgctgttaag	4860
gaaagttaca	gactattgga	aagacgtaat	gattaactga	cacttagttc	agtgtttgca	4920
cacagtgggt	gttcaatata	tattttat	ctttttctac	tatatgatt	ggtattaaag	4980
ctgttttttt	ttcttttttt	aaaaatacat	gtcaaaat	tcttggactc	ccctggcaag	5040
caggtatact	tcaagagcac	gggagctttt	ctttcaagag	tccacatttc	caggaaggct	5100
ggtgagagca	aacgagggac	tttcagtaac	ctggcaaggc	agaataaaag	gaacaagctg	5160
gaacgaatcc	ccctgtgccc	tggtttcatc	gggactacct	gcaggctgat	cagggtggcc	5220
agccacaaac	acctcgaggc	cttccattca	cttcacactg	cagcactact	cagccctgta	5280
aacacacggt	tagtgcata	gctgagctga	gatcactaga	gggcagcgct	ggtaactctt	5340
tggtctcaca	ttccagagga	agcatcttgt	tttccctc	ctgtggaaat	tctttttgga	5400
aagcttaaga	gcaaggctgc	cctttgcaca	caaggacatg	ctgaccgtta	tacctgctgt	5460
agatgcctgt	ctccgtttct	attggcagga	ctactctccg	acccattact	gcttcctgat	5520
tgctcttttt	cattcaacaa	agctgtggca	tacgctaacg	tgtcctgcag	aagattcaaa	5580
cacaagacga	caaagttagg	gccattcagc	tggcagcagc	aaccgccagg	gaagactacc	5640
tttcatctga	ccttcagtgg	gaccggaggc	ctgagagtga	ggccttcac	acagtcacca	5700
gaacccccct	aacccctgtc	cctttttgtg	accagactgc	ccaacctgta	tgactttcct	5760
tctagacaaa	taatctgcac	aaatttgtgt	aaagtacac	caatctgttt	tcttttcata	5820
gaaatccaat	tgtttcttct	gctgtgtctc	atcttcaact	catacctctc	ttctcagagg	5880
ttgcagtttc	tgagaaacac	actgaaaatc	ctccataagt	gatttagacc	acgcaaaaaac	5940
aagagacaac	tctcacctga	gctgaaatgg	ttcgttgaaa	ggtttttcca	gttgatgttt	6000
cattagagac	attactctgt	ggtgtccagt	aatgttctga	catctgagat	gaaaggtcaa	6060
aaatgccatc	agaggtgaca	aataagcccc	catgggttca	cagtttctac	cattagatat	6120
tgagtcttaa	aagcatccca	agtagggtag	aagtctaccc	agaccttcca	tcacataaag	6180
cgattcaaga	cctcagtcaa	gtattgcttc	ttatatcatc	atccctacct	tttcccctat	6240
gaagttaaga	catatgtatt	aggacaaaat	taatgcacac	aagatataaa	ctgtagcaaa	6300
gaaatgtttg	aaatctgaaa	acactttaag	gtcagttctc	atattcagtt	ccagagattt	6360
ttcctgacaa	gatgtgctat	tattgattcc	tatgttacag	ctagaaaaat	tcaatgttt	6420
gttaccttct	tctgtagcca	ctgcacagcc	cagctccagt	ggtgggaatt	ctccttgaag	6480
tactccttag	ctgcaggaca	c				6501

<210> 1964

<211> 3968

<212> DNA

<213> Homo sapiens

<400> 1964

gcagtgaaca	ctctttgcta	aatttttgac	tgaatccaag	atttttcctt	agaatagatt	60
cttaaaagtg	ggggccaggt	gcggtggctc	acacctataa	tcccagcacc	ttgggaggcc	120
gaggtggcca	gatcattgag	gtcaggagtt	tgaaccagc	ctggccaaca	tggtgaaacc	180
ccgtctctac	taaaaatata	aaaattagcc	aggtgtgtgg	ggcgtgcgcc	tgtagtcca	240
gctacttggg	aggctgaggc	aggagaatcg	cttgaacctg	ggaagcagag	gttgcaagg	300
gccgggatca	caccactgca	ctccagcctg	ggtgacagca	agactccatc	taagaaaaa	360
aaaaaaaaaa	gtacgattgg	tgcgccagag	tgaacacaaa	atgtaaagac	ttgtgtattt	420
gtgagaccct	tttgaagcat	gctatctccc	cagctacacc	ctcttcaggt	gccccttccc	480
tgccctcctc	tgtttttcac	actgtggctc	gtggttccag	gctcaagcac	ggacatcagt	540
gaggactggg	agaaaagactt	tgacttggac	atgactgaag	aggaggtgca	gatggcactt	600
tccaaagtgg	atgcctccgg	ggaggtgagt	gggcctgggtg	ggtcagaggga	agcagacct	660
aatggtcctg	ggtgtgagag	ctctccccag	ccagcccagc	tgtcccctca	ggaggggtccc	720
tgctcctgtc	tgaggtgaca	ggtggtggga	aaggagctgg	agcttctctg	tcagaccac	780
aacattgggt	atcagcaggc	tgactttttc	ctcagttcca	gggtggatag	aggggtcaagt	840
tcttgacctt	agctctgtat	caaaattgcc	tgagaaactg	cttaagaaaa	cagatgtcat	900
gctgagcgcg	gtggctcaca	cctgtaatcc	caacactttg	ggaggccaag	gtgggaggat	960
tgcttgaggc	gaggagtcca	agaccagcct	ggccaatata	gtgagacccc	atttctgttt	1020
ttgaaaaaaaa	aaaaaaaaagg	aaaaaagaaa	acagacatca	aacctgcct	gaccttctga	1080
gttgtgtgtc	tcaggtatga	ggcctgagta	tatacttggc	cttgagagaca	aaagaccagt	1140
gtgatcaagg	gcaagggcaa	gttacttaac	ctgagcccct	ggttcctcat	ctaaaacatg	1200
gaattgatca	ttataagacc	tggtataaag	ctgtaatgag	gtgatccatg	tagacacctt	1260

agggctattg	cctgagacat	ggtgaccagc	actcaggaga	cattagtgat	aaacccccaca	1320
aaacccattc	cagttattaa	gctcaaggag	gccttagtac	tgttattctt	cactacctct	1380
cagaatcaaa	agtggctcat	ttagattgag	aggctggaac	agtccaaagc	tctcccagct	1440
aataagtac	aggactgagg	ctgcaaccca	gacatctgatt	catgtcagc	gttagttcca	1500
ctgtcacata	agaaccacat	gagtccttcc	atcatgtaac	ttatgagcct	gtagaaaaga	1560
ggtggacaga	ttagagagac	atgtgaaggg	cctccttttt	catgatggga	aactgaagcc	1620
ttgggggagt	attttaccta	ctcaggagta	ttttgcactt	gtgactacct	cactataccc	1680
aggacagaga	aagcccatag	tgccctgtca	ggccacaggg	gcttgctggc	tttttggtgc	1740
tttgacagccc	cctttaaaac	ctgacgtgca	gtacacgtga	gcattctaga	acctgctata	1800
ccagggttta	gccgacagca	ggccaagagt	aggaacaaag	caagaaaacg	ttccgtgggg	1860
agacttgagc	tgggaattag	ggtgttggtg	cccagtgta	agacctagtg	ggcatctgta	1920
ggccactgcc	acctctgctt	ttggccacag	tgccactcag	gcagtggcct	ccattcacc	1980
aaagactaag	taacttgccc	ttgattacac	tggtcttttg	tgtccagggc	caagtatctg	2040
ctcaggcctc	ctgagttctc	tgcttctcag	agccatggca	ttatctgctc	agcaggaggc	2100
aaagttctcct	taaaggactg	aggctgactt	ggttcctgta	ggcagccatc	acctgtgtgt	2160
gtctgtgtgt	ggttggggga	agtgtttcct	ttaggtctga	ggtaatcaga	gcacagggcc	2220
cacccctcag	gcagagggca	gctctgcccc	tcagacacat	tccttaagac	taggggttca	2280
ctctcagtgg	gacctcagag	tatggcctg	ggtaggggat	gggaggtggc	tctgctcagc	2340
aagtggaggt	taggtctggg	cctgactcag	gagtaactat	gtgtttgtga	tttccattac	2400
cccctcccat	ttgcagctgg	aagatgtaga	gtgggaggac	tgggagttag	ggagccagag	2460
ggagcagctc	cccaccccat	ggcatctctc	gcctccctcg	ctcgtctcag	cccagccctg	2520
gaagactgag	aatgttcccc	caaactctct	ctgccaaacca	gagctctggg	cacagattct	2580
ggtggctccc	tgctggccct	cttgggcttc	tgctcacacc	tgggaagggg	ctctctaaat	2640
cccggccaga	aactctgact	tgtgccaaaca	ataggatgac	ccaagggaga	ggaaacctat	2700
cctcctcacc	agaagagcct	gtgttttct	gctgaacacc	cactgttctt	gaggactcct	2760
gctgggaagt	cccaagggat	agttctagcc	cttctgcctg	tgtagacaga	agctaaacca	2820
ccagtctctc	tcggaggaag	ctgagacaac	atactctgtc	catacataag	caggcaggga	2880
gggcatgcc	acctaccctt	ggctaaccag	ggacagtga	cacatttttg	ttctatccc	2940
agtgggtaag	aggcacttat	ctctgggaaa	tttgctctc	ttgggactct	ccccctccca	3000
ggcattttcc	attcctggaa	aggctccttt	ggggttcaga	atccagagac	caaaccctga	3060
cccacctcct	tcctttcctc	cagcccacgc	tggtctgtcc	ccatgccttc	ccagggtctc	3120
ttcatgtcag	atgcaccmaa	gtccttagcc	cagctgtgcc	acctgcagga	gttcgtctct	3180
gcgtttcttc	ccctcccca	gaagggaggg	ggctacttca	ggcccttctg	tgtgttgctt	3240
ggcaggatac	cttgtccaac	cagctaccca	cctcaactcc	cctgtagttt	aggacacaaa	3300
acagctacca	gcggtacaga	gcggtgatca	aagccgagta	cttacaact	tggtgaagcct	3360
agcttctccg	cctcagccct	tctgcttctg	gaagggctat	cctgggggtg	aacttgaaac	3420
tctcatcagg	cttctgcaaa	agctcttctt	cctgaagaca	gacctagcct	ttgtgctctc	3480
acctccact	ctggtaaagc	tgacactctg	ggggaatgag	gggctgcagg	aatctctgga	3540
gagcctgggt	cttcacgatg	ctgctctggt	gattcttgta	cctaactctg	tgtgctcacc	3600
aatgagtga	agggatcgtg	ggtcaggagc	accgagagag	tgaggtcact	tccacttcaa	3660
accttcagt	aggggggtgg	atggagagaa	tgtggaatct	tttttttgac	gggatgggt	3720
ttttctcttt	gtaattat	ctttagttta	attaaccttt	tgggtgtttg	tgcaatatta	3780
tatattttaa	attataatgc	atctccccag	agtattttgt	agctgggaaa	agaaaaaagg	3840
aaaaaaagaa	aaaaagattc	taacagctgt	tagttttata	attaaaaaag	aaagaaaaaa	3900
gaactttgtc	ctgaaccttt	tacagacttg	ccgttaacag	cattaaagtg	attcaccgca	3960
agctgaaa						3968

<210> 1965
 <211> 3968
 <212> DNA
 <213> Homo sapiens

<400> 1965						
gcagtgaaca	ctctttgcta	aatttctgac	tgaatccaag	atttttcctt	agaatagatt	60
cttaaaagtg	ggggccaggt	gcggtggctc	acacctataat	cccagcacc	ttgggaggcc	120
gaggtggcca	gatcattgag	gtcaggagtt	tgaaccagc	ctggccaaca	tggtgaaacc	180
ccgtctctac	taaaaatata	aaaattagcc	aggtgtgtgg	ggcgtgcgcc	tgtagtccca	240

gctacttggg	aggctgaggg	aggagaatcg	cttgaacctg	ggaagcagag	gttgacgtgg	300
gccgggatca	caccactgca	ctccagcctg	ggtgacagca	agactccatc	taagaaaaca	360
aaaaaaaaaa	gtacgattgg	tgcgccagag	tgaacacaaa	atgtaaagac	ttgtgtattt	420
gtgagaccct	tttgaagcat	gctatctccc	cagctacacc	ctcttcaggt	gccccttccc	480
tgcctcctcc	tgcttttcac	actgtggctc	gtggccag	gctcaagcac	ggacatcagt	540
gaggactggg	agaaagactt	tgacttggac	atgactgaag	aggaggtgca	gatggcactt	600
tccaaagtgg	atgcctccgg	ggaggtgagt	gggctgggtg	ggtcagaggg	aagcgagcct	660
aatggctcctg	ggtgtgagag	ctctccccag	ccagcccagc	tgtcccctca	ggagggctcc	720
tgctcctgtc	tgaggtgaca	ggtggtggga	aaggagctgg	agcttcctgc	tcagaccac	780
aacattggtc	atcagcaggg	tgacttttcc	ctcagttcca	gggtggatag	agggccaagt	840
tcttgacctt	agctctgtat	caaaattgcc	tgagaaactg	cttaagaaaa	cagatgtcat	900
gctgagcgcg	gtggctcaca	cctgtaatcc	caacactttg	ggaggccaag	gtgggaggat	960
tgcttgaggc	gaggagtcca	agaccagcct	ggccaatata	gtgagacccc	atttctgttt	1020
ttgaaaaaaa	aaaaaaaaag	aaaaaagaaa	acagacatca	aacctgtcct	gaccttctga	1080
gttgtggctc	tcaggtatga	ggcctgagta	tatacttggc	cttgagagaca	aaagaccagt	1140
gtgatcaagg	gcaaggcaca	gttacttaac	ctgagcccct	ggttcctcat	ctaaaacatg	1200
gaattgatca	ttataagacc	tggtctataag	ctgtaatgag	gtgatccatg	tagacacctt	1260
agggctattg	cctgagacat	ggtgaccagc	actcagggaga	cattagtgat	aaaccccaca	1320
aaacccattc	cagttattaa	gctcaggag	gccttagtac	tgttattctt	cactacctct	1380
cagaatcaaa	agtggctcat	ttagattgag	aggctggaac	agtccaaagc	tctcccagct	1440
aataagtgc	aggactgagg	ctgcaaccca	gacatctgat	tcattgtcagc	gttagttcca	1500
ctgtcacata	agaaccacat	gagtccttcc	atcatgtaac	ttatgagcct	gttagaaga	1560
ggtggacaga	ttagagagac	atgtgaaggg	cctccttttt	catgatggga	aactgaagcc	1620
ttgggggagt	attttaccta	ctcaggagta	ttttgcactt	gtgactacct	cactataccc	1680
aggacagaga	aagcccatag	tgccctgtca	ggccacaggg	gcttgctggc	ttttgtgtc	1740
tttgacggcc	cctttaaaac	ctgacgtgca	gtacacgtga	gcattctaga	acctgctata	1800
ccagggttta	gccgacagca	ggccaagagt	aggaacaaag	caagaaaacg	ttccgtgggg	1860
agacttgagc	tggaatttag	ggtgttggtg	cccctagtg	agacctagt	ggcatctgt	1920
ggccactggc	acctctgctt	ttggccacag	tgccactcag	gcagtggcctcc	attcacc	1980
aaagactaag	taacttggcc	ttgattacac	tggtcttttt	tgtccagggc	caagtatctg	2040
ctcaggcctc	ctgagttctc	tgtctctcag	agccatggca	ttatctgtct	agcaggaggc	2100
aagttctcct	taaaggactg	aggctgactt	ggttcctgta	ggcagccatc	accttgtggt	2160
gtctggtggt	ggttggggga	agtgtttcct	ttaggctcga	ggtaatcaga	gcacaggcc	2220
cacccctcag	gcagagggca	gctctgcccc	tgagacacat	tccttaagac	taggggttca	2280
ctctcagtg	gacctcagag	tatggcctgg	tgtaggggat	gggaggtggc	tctgtcagc	2340
aagtggaggt	taggtctggg	cctgactcag	gagtaactat	gtgttgtga	tttccattac	2400
cccctcccat	ttgcagctgg	aagatgtaga	gtgggaggac	tgaggagtga	ggagccagag	2460
ggagcagctc	ccccacccat	ggcatctctc	gcctccctcg	ctcgtctcag	cccagccctg	2520
gaagactgag	aatgttcccc	caaattctct	ctgccaacca	gagctctggg	cacagattct	2580
ggtggctccc	tgctggccct	cttgggcctc	tgtcacacac	tggaagggg	ctctctaaat	2640
cccggccaca	aactctgact	tgtgccaaca	ataggatgac	ccaagggaga	ggaaacctat	2700
cctcctcacc	agaagagcct	gtgtttttct	gctgaacacc	cactgttctc	gaggactcct	2760
gctgggaagt	cccaagggat	agttctagcc	cttctgcctg	tgtagacaga	agctaaacca	2820
ccagtctctc	tcggaggaag	ctgagacaac	atactctgtc	catacataag	caggcaggga	2880
gggccatgcc	acctaccctt	ggctaaacag	ggacagtga	cacatttttg	ttcctatccc	2940
agtgggtaag	aggcacttat	ctctgggaaa	tttgctctc	ttgggactct	ccccctccca	3000
ggcattttcc	attcctggaa	aggctccttt	ggggttcaga	atccagagac	caaaccctga	3060
cccacctcct	tcctttcctc	cagcccaagc	tggtctgtcc	ccatgccttc	ccagggtctc	3120
ttcatgtcgg	atgcacccaa	gtccttagcc	cagctgtgcc	acctgcagga	gttcgtctct	3180
gcgtttcttc	ccctccccaa	gaaggagggg	ggcacttca	ggcccttctg	tgtgttgct	3240
ggcaggatac	cttgtccaac	cagctaccca	cctcaactcc	cctgtagtgt	aggacacaaa	3300
acagctacca	gcggtacaga	gcggtgatca	aagccgagta	cttacaactc	tggtaaagcct	3360
agcttctccg	cctcagccct	tctgtctctg	caagggctat	cctgggggtg	aacttgaaac	3420
tctcatcagg	cttctgcaaa	agctcttctt	cctgaagaca	gacccagcct	ttgtgtctct	3480
acctccactc	ctggtaagac	tgccactctg	ggggaatgag	gggctgcagg	aatctctgga	3540
gagcctggtg	cttcacgatg	ctgctctggt	gattcttgta	cctaactctg	tgtgtctacc	3600
aatgagtga	agggatcgtg	ggtcagggac	accgagagag	tgaggctcact	tccacttcaa	3660

accttcagtg	aggggggtggg	atggagagaa	tgctgaatct	tttttttgac	gggatgggggt	3720
ttttctcttt	gtaattatth	ctttagttta	attaaccttt	tggttggttg	tgcaatatta	3780
tatatthttaa	attataatgc	atctccccag	agtatthttgt	agctgggaaa	agaaaaaag	3840
aaaaaaagaa	aaaaagattc	taacagctgt	tagthtttata	attaaaaaag	aaagaaaaaa	3900
gaactthtgtc	ctgaacctth	tacagacttg	ccgttaacag	cattaaagtg	attcaccgca	3960
agctgaaa						3968

<210> 1966
 <211> 3968
 <212> DNA
 <213> Homo sapiens

<400> 1966						
gcagtgaaca	ctctttgcta	aattttctgac	tgaatccaag	atthtttcctt	agaatagatt	60
cttaaaagtg	ggggccaggt	gcggtggctc	acacctataa	tcccagcacc	ttgggaggcc	120
gaggtggcca	gatcattgag	gtcaggagtt	tgaaccagc	ctggccaaca	tggtgaacc	180
ccgtctctac	taaaaataca	aaaattagcc	aggtgtgtgg	ggcgtgcgcc	tgtagtccca	240
gctacttggg	aggctgaggc	aggagaatcg	cttgaacctg	ggaagcagag	gttgcagtg	300
gccgggatca	caccactgca	ctccagcctg	ggtgacagca	agactccatc	taagaaaaca	360
aaaaaaaaaa	gtacgattgg	tgcgccagag	tgaacacaaa	atgtaaagac	ttgtgtatth	420
gtgagaccct	tttgaagcat	gctatctccc	cagctacacc	ctcttcaggt	gccccttccc	480
tgctctctcc	tgctthttcac	actgtggctc	gtggttccag	gctcaagcac	ggacatcagt	540
gaggactggg	agaaagactt	tgacttggac	atgactgaag	aggaggtgcag	atggcactt	600
tccaaagtgg	atgcctccgg	ggaggtgagt	gggcctgggt	ggtcagaggg	aagcgagcct	660
aatggtcctg	ggtgtgagag	ctctccccag	ccagcccagc	tgtccctcca	ggagggtccc	720
tgctcctgtc	tgagggtgaca	ggtggtggga	aaggagctgg	agcttcctgc	tcagaccac	780
aacattgggt	atcagcaggc	tgcactthttc	ctcagttcca	gggtggatag	agggtcaagt	840
tcttgaccct	agctctgtat	caaaattgcc	tgagaaactg	cttaagaaaa	cagatgtcat	900
gctgagcgcg	gtggctcaca	cctgtaatcc	caacacttht	ggaggccaag	gtgggaggat	960
tgcttgaggc	gaggagtcca	agaccagcct	ggccaatata	gtgagcccc	atthctgtth	1020
ttgaaaaaaa	aaaaaaaaag	aaaaagaaa	acagacatca	aaccctgcct	gaccttctga	1080
gttgtggtcc	tcagggtatga	ggcctgagta	tatacttggc	cttgagaca	aaagaccagt	1140
gtgatcaagg	gcaagggcaa	gttacttaac	ctgagccctt	ggttcctcat	ctaaaacatg	1200
gaattgatca	ttataagacc	tggtctataag	ctgtaatgag	gtgatccatg	tagacacctt	1260
agggctattg	cctgagacat	ggtgaccagc	actcaggaga	cattagtgtat	aaacccca	1320
aaacccattc	cagttattta	gctcaaggag	gccttagtac	tgttattctt	cactacctct	1380
cagaatcaaa	agtggctcat	ttagattgag	aggctggaac	agtccaaagc	tctcccagct	1440
aataagtgac	aggactgagg	ctgcaaccca	gacatctgat	tcatgtcagc	gttagttcca	1500
ctgtcacata	agaaccacat	gagtccttcc	atcatgtaac	ttatgagcct	gttagaaaga	1560
ggtggacaga	ttagagagac	atgtgaagg	cctcctthtt	catgatggga	aactgaagcc	1620
ttgggggagt	atthttacct	ctcaggagta	thttgcactt	gtgactacct	cactataccc	1680
aggacagaga	aagcccatag	tgccctgtca	ggccacagg	gcttgcctgc	thtttgtgtc	1740
thttgcagccc	cctthtaaac	ctgacgtgca	gtacacgtga	gcattctaga	acctgtctata	1800
ccagggtcta	gccgacagca	ggccaagagt	aggacaaag	caagaaaacg	ttccgtgggg	1860
agacttgagc	tggaattag	ggtgttggtg	cccctagtga	agacctagt	ggcatctgta	1920
ggccactgcc	acctctgctt	ttggccacag	tgccactcag	gcagtggcct	ccattcacc	1980
aaagactaag	taacttgccc	ttgattacac	tggtctthtt	tgtccagggc	caagtatctg	2040
ctcaggcctc	ctgagthtct	tgcttctcag	agccatggca	ttatctgtct	agcaggaggc	2100
aagthtctct	taaaggactg	aggctgactt	ggttctctga	ggcagccatc	acctgtgtgt	2160
gtctggtgtt	ggttggggga	agtgtthtct	ttaggtctga	ggtaatcaga	gcacagggcc	2220
caccctcag	gcagagggca	gctctgcc	tcagacacat	tccttaagac	taggggtcca	2280
ctctcagtg	gacctcagag	tatggcctgg	ggtaggggat	gggaggtggc	tctgtctcagc	2340
aagtggagg	ttaggtctgg	cctgactcag	gagtaactat	gtgtthttga	thttccattac	2400
ccctcccat	ttgcagctgg	aagatgtaga	gtggagggac	tgggagttag	ggagccagag	2460
ggagcagctc	ccccacccat	ggcatctctc	gcctccctcg	ctcgtctcag	cccagccctg	2520
gaagactgag	aatgttcccc	caaatctcct	ctgccaacca	gagctctggg	cacagattct	2580
ggtggctccc	tgctggccct	cttgggcctc	tgctcacacc	tggaagggg	ctctctaaat	2640

cccggccaga	aactctgact	tgtgccaaaca	ataggatgac	ccaagggaga	ggaaacctat	2700
cctcctcacc	agaagagcct	gtgtttttct	gctgaacacc	cactgttcct	gaggactcct	2760
gctgggaagt	cccaagggat	agttctagcc	cttctgcctg	tgtagacaga	agctaaacca	2820
ccagtctctc	tcggaggaag	ctgagacaac	atactctgtc	catacataag	caggaggga	2880
gggccatgcc	acctaccctt	ggctaaacag	ggacagtga	cacattttgg	ttcctatccc	2940
agtgggtaag	aggcacttat	ctctgggaaa	tttgcctctc	ttgggactct	ccccctccca	3000
ggcattttcc	attcctggaa	aggctccttt	ggggttcaga	atccagagac	caaaccctga	3060
cccacctcct	tcctttctc	cagcccacgc	tggctgtcc	ccatgccttc	ccagggttc	3120
ttcatgtcag	atgcacccaa	gtccttagcc	cagctgtgcc	acctgcagga	gttcgtctct	3180
gcgtttcttc	ccctcccca	gaaggaggag	ggctacttca	ggcccttctg	tgtgttgctt	3240
ggcaggatac	cttgtccaac	cagctaccca	cctcaactcc	cctgtagt	aggacacaaa	3300
acagctacca	gcggtacaga	gcggtgatca	aagccagata	cttacaactc	tggtaagcct	3360
agcttctccg	cctcagccct	tctgcttctg	gaagggtat	cctgggggtg	aacttgaaac	3420
tctcatcagg	cttctgcaaa	agctcttctt	cctgaagaca	gaccagcct	ttgtgctctc	3480
acctctcact	ctgttaaagc	tgcacctctg	ggggaatgag	gggctgcagg	aatctctgga	3540
gagcctggtg	cttcacgatg	ctgctctggt	gattcttgta	cctaactctg	tgtgctcacc	3600
aatgagtga	agggatcgtg	ggtcaggagc	accgagagag	tgaggtcact	tccacttcaa	3660
accttcagtg	aggggtggtg	atggagagaa	tgtgaatct	ttttttgac	gggatgggt	3720
ttttctcttt	gtaattattt	ctttagttta	attaaccttt	tggttgtttg	tgcaatatta	3780
tatatattaa	attataatgc	atctccccag	agtattttgt	agctgggaaa	agaaaaaagg	3840
aaaaaaagaa	aaaaagattc	taacagctgt	tagttttata	attaaaaaag	aaagaaaaaa	3900
gaactttgtc	ctgaaccttt	tacagacttg	ccgttaacag	cattaaagtg	attcaccoga	3960
agctgaaa						3968

<210> 1967

<211> 506

<212> DNA

<213> Homo sapiens

<400> 1967

gccagggcag	gactggcttc	ccacttgag	ccagagacag	gtaggggga	tagcctaggt	60
ccagaggacg	taccttgctc	tcatcccaga	ttcagctttg	cctttgggat	gagaaagggt	120
cagggtctgc	aacaggcctc	tactgggac	aaggagtccg	gaggccatct	ctgactccc	180
agtgcctctg	ctttcctttg	gaaaggaagt	tgcaacaaga	atggcttcag	ttgctcttgg	240
tcatttttat	cctctcttcc	ccctgtttgt	atatgattct	tgggtctatt	ttaattaaact	300
ttagtatgaa	aatcacttgt	catgccaggc	gcagtggctc	atgcctgtaa	tcccaacatt	360
ttgggaggcc	aaggtgggtg	gatcactaag	gtcaggagtt	ccagaccagc	ctggccaaca	420
tggtgaaacc	ccatctctac	taaaaatata	gaaatagcca	ggcgtggtgg	gaggtgcctg	480
taatcccagc	tactggggag	gctgag				506

<210> 1968

<211> 506

<212> DNA

<213> Homo sapiens

<400> 1968

gccagggcag	gactggcttc	ccacttgag	ccagagacag	gtaggggga	tagcctaggt	60
ccagaggacg	taccttgctc	tcatcccaga	ttcagctttg	cctttgggat	gagaaagggt	120
cagggtctgc	aacaggcctc	tactgggac	aaggagtccg	gaggccatct	ctgactccc	180
agtgcctctg	ctttcctttg	gaaaggaagt	tgcaacaaga	atggcttcag	ttgctcttgg	240
tcatttttat	cctctcttcc	ccctgtttgt	atatgattct	tgggtctatt	ttaattaaact	300
ttagtatgaa	aatcacttgt	catgccaggc	gcagtggctc	atgcctgtaa	tcccaacatt	360
ttgggaggcc	aaggtgggtg	gatcactaag	gtcaggagtt	ccagaccagc	ctggccaaca	420
tggtgaaacc	ccatctctac	taaaaatata	gaaatagcca	ggcgtggtgg	gaggtgcctg	480
taatcccagc	tactggggag	gctgag				506

<210> 1969

<211> 456
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (76)..(76)
 <223> n equals a,t,g, or c

<400> 1969
 ggtgcctgta atcccagcta ctcagggagg gtgaggcaa gagaatctct tgaacccagg 60
 aggccggagg ttgcanggag ctgaaaatcg tgccactgca ctccagcctg ggtgacagag 120
 cgagactctg tctcagaaaa aaaagaacaa ctagagcaga gtgaggggtga tgatgggttg 180
 ctcttttaaac taggatgggc agtgtaggcc acatctagaa ggtacgattt gagcaatggc 240
 atgaaggagg tgaagggttg gtctttaga tatctgagga tacgagttcc aggtgcaggg 300
 aacagcccat gcaaaagccc taagttggga atgcgcctgg tatgtttctg gaggaacaag 360
 attagtgtgg gcagaatgga gtgaggaaga agaggtctac tgtttggggg tccgagggga 420
 ggtttttggt ttcttttagag acagggttt gcactg 456

<210> 1970
 <211> 479
 <212> DNA
 <213> Homo sapiens

<400> 1970
 aaaattagct ggatgtggta ccaggcaggt gcctgtaatc ccagctactc aggaggctga 60
 ggcaagagaa tctcttgaac ccaggaggcg gaggttgacg ggagctgaga tcgtgccact 120
 gcactccagc ctgggtgaca gagcgagact ctgtctcaga aaaaaaagaa caactagagc 180
 agagtgaggg tgatgatggg ttgctcttta aactaggatg gtcagtgtag gccacatcta 240
 gaaggtacga tttgagcaat ggcatgaagg aggtgaaaag ttggtcttgt agatatctga 300
 ggatacgagt tccaggtgca gggacagcc catgcaaaag ccctaagttg ggaatgcgcc 360
 tggtatgttt ctggaggaac aagattagtg tgggcagaat ggagtgaaga agaagaggtc 420
 tactgtttgg gggtcagag ggaggttttt gttttcttta gagacagggg tttgcactg 479

<210> 1971
 <211> 506
 <212> DNA
 <213> Homo sapiens

<400> 1971
 gccagggcag gactggcttc ccacttgag ccagagacag ggtaggggga tagcctaggt 60
 ccagaggacg taccttgtcc tcatcccaga ttcagctttg cctttgggat gagaaaggg 120
 cagggctcgc aacaggcctc tcaactggac aaggagtcgg gaggccatct ctgcactccc 180
 agtgccctctg ctttcctttg gaaggaagt tgcaacaaga atggcttcag ttgctcttg 240
 tcatttttat cctctcttcc ccctgtttgt atatgattct tgggtctatt ttaattaact 300
 ttagtatgaa aatcacttgt catgccaggc gcagtggctc atgcctgtaa tccaacatt 360
 ttgggaggcc aaggtgggtg gatcactaag gtcaggagtt ccagaccagc ctgccaaca 420
 tggtgaaacc ccatctctac taaaaataca gaaatagcca ggcgtggtgg gaggtgcctg 480
 taatcccagc tactggggag gctgag 506

<210> 1972
 <211> 1006
 <212> DNA
 <213> Homo sapiens

<400> 1972
 caaaaggggc ttctattgta ttggtcatat tttattttgg tttaaaaaat ttagagtaa 60

atgtggcaaa	atgttaatgc	ttgttaaate	tgagtggaga	gtacattggt	gttaagtgtg	120
ctgctatgca	gggtgagtga	attactcaat	aactaaataa	ttgtgacata	atatatttat	180
ttatgcttcc	ctgttatgat	ctacacataa	aattactgga	gcattattgct	taacttctt	240
gtaaaaaagt	tctgcaattg	tagtgttatt	aagaaagtaa	tattgatttg	tatagtgaca	300
gaggattttt	tcagtgtcac	tttgccagca	gagatcttca	tggtgggcat	tgcccctgcc	360
catgtctcac	ttggccctgg	gcttgcccca	ctaggtaccc	tgcccacctg	gccaggcagg	420
ctgtgcttgg	cttgagctct	ggcccagatc	ctgcacttgc	tctgcggctg	agccaggcat	480
gccatgacct	acttccacct	tgggagccgg	cgtctggatg	aggggaatgc	tgtgacactt	540
gaacagaggt	gggcatgtga	ccccaaagcc	caaagggggg	tgttacagca	tgctaacagt	600
tctttcagtc	tcacatccac	agcccaacaa	atggaggtgt	gtgggcccc	gaggtccctt	660
ctcccattgt	ttggcaagca	ggaggggtgt	gctacagggt	tacagctttg	tttgcaactt	720
ccgtttggtg	ggctctgagt	tcttttccca	tgtccaagaa	taaggttggt	ctgacagcta	780
gcggttgagt	gaggcaaaaga	gttttactca	gtaacaaaac	agctctcagc	agagaaggaa	840
gcctgagttg	gacagcacc	ttacctgaag	ttgggtagtc	ttcccaccac	ctaaaagtgg	900
gtagcccaaa	gtgtggctga	gcctgggggt	tttatatgct	cagaatggga	gtgtatgtgc	960
taattggttt	gtgagtatgc	aaaaaaagct	aaaaaaaaaa	aaaaaa		1006

<210> 1973

<211> 336

<212> DNA

<213> Homo sapiens

<400> 1973

gaatgtaagc	taattaaatg	gcttattaaa	ggagattttc	agatattttt	gaaaatctat	60
cttgatagta	cttataagag	ataaatataa	aaacttaag	atattggcca	aaggagatta	120
aaaaaaagtc	aggcaattaa	ccagaacaac	attagtata	ttaatagaag	ctagtaaaat	180
acaagagaga	acacaaaaca	gacccatccc	tgtatagaat	ttggtgatat	atgacagaga	240
tgaccataca	atcaattaga	aaagaaagca	ttgttgatgg	tcctgattga	gtaactatgt	300
ggatgtggag	ggcagtgtaa	atgaaagcct	aacttc			336

<210> 1974

<211> 1583

<212> DNA

<213> Homo sapiens

<400> 1974

ggatctgtgt	ggcatgggat	gtgtgtttat	gtgtattgtg	ggtgtctgtg	tggtcatgctg	60
tgctgtgtgt	tattgtggat	gtttactgtc	ccgggcagta	gaaaggacgt	cggggaagca	120
gcccagcat	caggacag	ccaggagtgc	agaatgcatg	gaagctggc	aggtcggagc	180
ccgggatgaa	ggaagcacag	agatgcaagg	gtgccagggc	ccatggaacc	aagagccgat	240
gatcaaggcc	acagtgcaca	cagccctgga	ggcaaaggac	atattcattt	cacaaggatt	300
aaaaagcatg	ggccaaggct	gggccccagg	ccaggactgg	ggatacacag	tggtatcagtc	360
cccatccctg	cccccagggt	cttaccacca	cccatccacc	tcacagggtt	ccccaccca	420
gccccttggc	gagctcctcc	tcattcctca	aaacgtcgct	gaggtcacgc	tccttcccga	480
ggcctctccc	catcctctaa	aacaccctct	ccctgctgcc	cacttgcagc	acagtcagag	540
agctccgtgg	cctgtttcca	ctggactgag	tcttctgggg	ggtgctgggt	cagagcagaa	600
ccctgggctg	ggagtcccg	cacctcgttc	cactccctca	cccacagcct	cgctgtttaa	660
cctcaggcag	gccgtgtccc	tcctcagcct	cactttcccc	ttgtgtaaaa	tgagggaagg	720
gactgcgcct	tctaagtcac	ctttcagctt	aaaacctctt	tgaccttcta	tctggctaata	780
ggaggtgctg	accaggggca	agaagggtatt	tgaaaaacgc	tttgaaaaat	tcatagcagg	840
aggcaaaggga	gaaagagtct	ttatttttct	agagcgggag	gcaggaggag	ttatggacag	900
aggctgtcga	tgaaaaggac	agcatctcag	agcactttgt	ggcatttaata	gtctaattgcc	960
tcctcccatt	aaagcagtgg	catcaaatat	ttaccaaaagc	agcattaaaa	attaaccttt	1020
accatggggga	tgtataaagg	ccctaagttc	cctgagaagt	gaccgaacat	caggagggtta	1080
aagtgcagag	aaggaaggct	acaagcgggt	tgtgaataat	ggaagcccc	aaaggtcccc	1140
caacacagct	ccctgttgac	cccactccca	aagccagggc	agcctccggc	cgtgtctctg	1200
cagaggctcc	cagcccttgc	gagatccca	gagggcctgc	aggataagga	caggccctca	1260

gctgggcatc	cacagccttc	catggcctgg	ccctgcctct	ctgggcagct	gggatctgta	1320
ggatggaaag	gaatgagtct	gtcggagttg	gaagagacca	ggggaggaag	tggggagttg	1380
tccgggcact	ggaaatagca	cgtgcagagg	cactgaggca	gagacagctg	cacataatc	1440
catcagaaga	gcagccaggt	ggcatgagtg	tgggggagga	aggaagcgca	ggaggggaca	1500
ggtgggagat	gcaggtaggt	ctgactgtgc	agggccatgg	taagatgtgg	gcttctcggt	1560
ccagggacag	gggtgccctc	gag				1583

<210> 1975
 <211> 4443
 <212> DNA
 <213> Homo sapiens

<400> 1975						
cagagattat	ctcatcattg	actccgagtt	gattggatgg	atgcagacag	tatacagaag	60
agccttttaga	gcttcataca	attgtgagct	gataatcttt	cttagaatca	tccaattgga	120
tgcacagtca	acaagcagcc	ttctggtagt	tcattcattt	gttcattcat	ttctattga	180
gccttcaagc	accttcagtg	tgacagatgt	cacactaggt	gctagacaca	caaagataaa	240
ttatgtttgt	gcactgcttg	gagcagctca	ttccctcctc	agaggttttg	ttgcagggtg	300
gagaacagga	tggccagctg	acaggatttc	caggccctgc	agctatgatt	ttctgcactg	360
tgatttaaca	aaataacgct	aggtgcaatc	agtcactctc	ttgtgaattg	cttagcaaaag	420
attattacc	cagacagagt	acactgagaa	aaaataataa	aaccctagga	ctggacccca	480
aactgaagac	ttcagtgagg	aattgcctct	ttgtgacatt	ccaccctata	tcgtaacact	540
gatgattcac	tttggaaacct	aaaagttagt	tacttttatg	ttcaactac	actcagcaat	600
tctactgcaa	tttgtgtctc	tccgtgttgg	ctacctctta	tgatctgcaa	tgccacatac	660
tactatcttc	aggctgcagg	ctgagcctag	gaactgagtc	tcagccatgc	tttcttcca	720
tcacccctcc	catccccagc	tggcagttag	tgttttgcaa	atgatactgc	aaatgattgt	780
agtttgtgtt	tatgagaaaa	gggggttggg	aaggaaaaga	cagaaaagaa	ggggattggg	840
gaaggggaga	gagagagaaa	gagagaggga	gggttttaag	ctacttgga	tttgagttt	900
aagttgccct	taagttaaagc	atatttttaa	taggtacta	taagaaacac	acttttcaag	960
ggaaaaaaag	tgggtttgaa	ttttggctgc	cactcattag	aatattatc	tttatagggt	1020
aattatcatc	tccgggcctt	gatttttcta	aactgtaaaa	tgaaatgttt	ggagttagag	1080
aatttttaaa	tattctggta	tcattgattc	ttgtatttct	tgagacaaaa	tcctctcttt	1140
cacattctgc	taattttgta	atttgtttca	ccattctctc	ttgacacata	aaaggactct	1200
gtgaaaacta	tcagtatcgg	agaagatttc	ctataaccat	catatcatct	atgtttccta	1260
ttagggcttc	tgacattcca	catgttttca	aaggtaattg	gaaatactgg	agacaattta	1320
agggttcatta	ttgtgttagc	caagaaaata	gctaattgatg	actttagcta	ctgggctatt	1380
cagcctatca	tagagcccat	tagctcaatt	aagtaamtca	aataggaaaa	aacattttaga	1440
cttaaaaaagc	caccaccac	tacctattac	ttgcctgtga	ggcttctatt	tcattggtgaa	1500
ttcaaattgc	ttgttcattg	taggtagaag	aaaatgagca	atcatctgat	tcagcagatg	1560
cagtgattca	agatcactta	gcatttataa	tgataaacca	aaaattatgt	taaatagcaa	1620
ttttaaggaa	gcaggtaaga	ctagaagcct	tctgcataaa	tcaggcttga	gctttgcgga	1680
agtggcttct	ttccctgtac	tgaggtgtga	gaagcagcac	atggattttt	attcctttaa	1740
aggattttct	tcaagcaaca	gtctgtagtt	caggttaattg	ggaaggcaag	gcagtagcat	1800
tgggatgaac	atttatgatac	ccaaacattc	taattctagg	tgtctacagc	attcaaatat	1860
tgagttaggca	cttacacttc	caaagaccaa	ttcttcaaga	taatgctgag	gttaacttac	1920
agttttatat	attattcaat	ggggcagttc	acaggacatt	tgaagtgact	tggagagaaa	1980
aaagaatacc	gccgttcata	ttattaatat	ttatggtaca	gttattatat	tcaggccatg	2040
ctattgctgg	agagagttgg	tccattgaat	aaatgtgcaa	tgttcatgaa	gcagtgaata	2100
tatcattcaa	ttaaaaattc	agcaactgat	gtagttaggg	atgtgctggg	aaatgtctca	2160
caactggctt	tccaggaccg	gtttgcagca	tttgtctgatt	ttcatgggtg	agacccttcc	2220
ctcatggctg	acatcaagct	accaatgggt	tggcatctgg	cttgcacaa	tgctggaaat	2280
ttagcaatca	actcgagcac	gctggcacia	gttgctccag	ccccagtacc	ggacatgact	2340
taaagagtga	gggggtggaa	aattacagtc	aaaggggtgc	cactacctac	ccaaatccta	2400
taaaacggcc	ccaccctat	ctccctgcgc	tgactccttt	ttcggactca	gcccactg	2460
acccaggtga	aataaacagc	cttgttgctc	acacacacac	acacacacac	acacacacac	2520
acacacacaa	agagtaaggg	gtgaaatggc	tttgcttgta	actggattcc	aagagaatca	2580
ttcttagacc	gcacacctaa	gtgtttactt	tattaccaac	tatcatctca	aagtgggaga	2640

gaggatgggg	attgggtccc	cttttcagaa	aaccocctatg	aaagagccct	ttagaaaaag	2700
gctgggcttg	aggaagtctt	aattctaaat	atcgcggtatc	aggggaagga	gcaggtcatt	2760
ccatttcctt	gggactcaca	tgtataataa	gcagatttca	tatctgagag	gcgtaagttc	2820
ccttctattt	ttgctgctca	gtgtgcaatt	tagtccaaaa	attgactccggtgcagatca		2880
ttaaattgtc	aacagccagt	gggtcctgaa	acataagcaa	ggactaccca	gacaggaggt	2940
cgggagtttc	taatgcatcc	ccggggacct	gctaggatct	tgacctctct	ctaagagagg	3000
ctttggactg	attcggcata	acagtggggg	cagatctgct	ttctccaagg	ctgtctcttc	3060
ccttctatca	gtgatctcca	ccttgctcag	cccactcaat	gctgcctttg	ctgttacagt	3120
ctaagaaatg	tggctccttt	ttcctaacct	ctcttctcct	ttcacctgca	tgtcataagg	3180
tggatcatgga	tatattcttt	catattcttg	ctaaaatact	cattgctgga	agtaacacaa	3240
gggtatcaaa	tttgtataaa	caacagtatg	attttagtct	ctaaataat	aatgcaatat	3300
aacaaaatga	gtccattcaa	ctgttgcca	ttcaactata	ccttaataata	tattatttta	3360
ttgatgtata	tctatgtata	cattagttct	gtgcacagtc	tagtggatag	tgatctgtta	3420
aatggataaa	tgaatgaatg	gctgaagttt	tatccttctg	aatggatgag	tgccctctct	3480
agttcatttt	caagcctcta	gggctatgat	acatgtttcc	tatttccaga	ttttctttta	3540
tgttctctct	ttatttctag	aaaacacaaa	tagcttctcg	cccatggggg	ggatttttgg	3600
caggaaaatc	gcactcttta	cctgtcatcc	accttccaga	aatgcaggaa	ctgaaagact	3660
gagaaagtgg	aaaacacgcc	atgcaattgc	taacagttgg	cagagcagca	agtgcactcc	3720
agtgggtggc	atttgtccct	gtttctatgc	tctgatctga	agcttgtaca	acagatgtac	3780
caggggctgg	aggatggcag	tgctcatttg	tggaggtgat	aatgctagaa	aacagctcag	3840
gccatgacta	gcatagtgcc	acaggctgat	gaacctgttg	gtcctgctgg	gcagttttag	3900
ctcagcagca	ttttaaccat	ttgcaacgct	agaagcaacg	gcaaacattg	ctaataaac	3960
atttctttat	atggctagag	tgctggaact	agatgtcatg	gaacttttca	aaaataactga	4020
ggctttatgt	tcagttctga	ataaaatttt	acctccaaat	tttctttttt	tttttgagat	4080
ggagtctcac	tctgtcgccc	aggctggagt	gcaaggcat	gatattggct	cactgcagcc	4140
tctgcctcct	gggttcaagc	aattctcctg	cctcagcctc	ccgagtagct	gcagttacag	4200
gcacccacca	ccatgaccag	ctaatttttg	tatttttagt	agagacgggg	tttcaccata	4260
ttggccaggc	tggctctgaa	ctcctcactt	cagggtgtct	gcccgcctcg	acctcccaa	4320
gggctgggat	tataggcgtg	agccaccatg	ctcagccaat	ttttattttt	tatttttcaa	4380
aattctattt	tatttttaggt	cctgggatac	atgtacagaa	cgcaggattg	ttacataagg	4440
aaa						4443

<210> 1976

<211> 604

<212> DNA

<213> Homo sapiens

<400> 1976

acctctcttc	tcctttcacc	tgcatgtcat	aagggtgtca	tggatatatt	ctttcatatt	60
cttgctaaaa	tactcattgc	tggaagtaac	acaagggtat	caaatttgta	taaacaacag	120
tatgatttag	ttctctaata	taataatgca	atataacaaa	atgagtccat	tcaactgttg	180
tccattcaac	tataccttaa	tatatattat	tttattgatg	cttatctatg	tatacattag	240
ttctgtgcac	agtctagtgg	atagtgatct	gttaaattgga	taaataaatg	aatggctgaa	300
gttttatcct	tctgaatgga	tgagtggcct	ctctagttca	ttttcaagcc	tctagggcta	360
tgatacatgt	ttcctatttc	cagatttttc	tttatgttct	ctctttatct	ctagaaaaca	420
caaataagctt	ctgcgccatg	ggggggattt	ttggcaggaa	aatcgacttc	tttacctgtc	480
atccaccttc	cagaaatgca	ggaactgaaa	gactgagaaa	gtggaaaaca	cgccatgcaa	540
ttgctaacag	ttggcagagc	agcaagtgca	ctccagtggg	tggcatttgt	ccctgttttt	600
atgc						604

<210> 1977

<211> 4442

<212> DNA

<213> Homo sapiens

<400> 1977

cagagattat	ctcatcattg	actccgagtt	gattggatgg	atgcagacag	tatacagaag	60
------------	------------	------------	------------	------------	------------	----

agcctttaga	gcttcataca	attggagct	gataatcttt	cttagaatca	tccaattgga	120
tgcacagtca	acaagcagcc	ttctggtagt	tcattcattt	gttcattcat	tctctattga	180
gccttcaagc	accttcagtg	tgacagatgt	cacactaggt	gctagacaca	caaagataaa	240
ttatgtttgt	gcaactgctt	gagcagctca	ttccctcctc	agaggttttg	ttgcaagggtg	300
gagaacagga	tggccagctg	acagggtattc	caggccctgc	agctatgatt	ttctgcactg	360
tgatttaaca	aaataacgct	aggtgcaatc	agtcactctc	ttgtgaattg	cttagcaaaag	420
attattaccc	cagacagagt	acactgagga	aaaataataa	aaccctagga	ctggacccca	480
aactgaagac	ttcagtgaag	aattgcctct	ttgtgacatt	ccaccctata	tcgtaaacact	540
gatgattcac	tttggaaacct	aaaagttagt	tactttttatg	ttcaacctac	actcagcaat	600
tctactgcaa	tttgtgtctc	tccgtgttgg	ctacctctta	tgatctgcaa	tgccacatac	660
tactatcttc	aggctgcagg	ctgagcctag	gaactgagtc	tcagccatgct	ttccttcca	720
tcacccctcc	catccccagc	tggcagttag	tgttttgcaa	atgatactgc	aaatgattgt	780
agtttgtgtt	tatgagaaaa	gggggttggg	aaggaaaaa	cagaaagaaa	ggggattggg	840
gaaggggaga	gagagagaaa	ggggtttaag	ctacttgga	tttggagttt		900
aagttgcctt	taagtaaagc	atatttttaa	taggctacta	taagaaacac	acttttcaag	960
ggaaaaaaag	tgggtttgaa	ttttggctgc	cactcattag	caatattatc	tttatagggt	1020
aattatcatc	tccgggcctt	gatttttcta	aactgtaaaa	tgaaatgttt	ggagtttagag	1080
aatttttaaa	tattctggta	tcattgattc	ttgtattttc	tgagcaaaa	tcctctcttt	1140
cacattctgc	taattttgta	atttgtttca	ccattctctc	ttgacacata	aaaggactct	1200
gtgaaaaacta	tcagatocgg	agaagatttc	ctataaccat	catatcatct	atgtttccta	1260
ttagggtctc	tgacattcca	catgttttca	aaggtaattg	gaaatactgg	agacaattta	1320
agggtcatta	ttgtgttagc	caagaaaaata	gctaattgatg	acttttagcta	ctgggctatt	1380
cagcctatca	tagagcccat	tagctcaatt	aagtaaataca	aataggaaaa	aacattttaga	1440
cttaaaaaagc	cacccaccac	tacctattac	ttgcctgtga	ggcttctatt	tcatggtgaa	1500
ttcaaattgc	ttgttcattg	taggtagaag	aaaatgaga	atcatctgat	tcagcagatg	1560
cagtgattca	agatcactta	gcattttataa	tgataaaacca	aaaattatgt	taaatagcaa	1620
ttttaaggaa	gcaggttaaga	ctagaagcct	tctgcataaa	tcaggcttga	gctttgcgga	1680
agtggcttct	ttccctgtac	tgaggtgtga	gaagcagcac	atggattttt	attcctttta	1740
aggattttct	tcaagcaaca	gtctgtagtt	cagggttaatg	ggaaggcaag	gcagtagcat	1800
tgggatgaac	atttatgata	ccaaacattc	taattctagg	tgtctacagc	attcaaatat	1860
tgagtaggca	cttacacttc	caaagacca	ttcttcaaga	taatgctgag	gttaacttac	1920
agttttatat	attattcaat	ggggcagttc	acggacatt	tgaagtgact	tggagagaaa	1980
aaagaatacc	gccgttcata	ttattaatat	ttatggtaca	gttattatat	tcaggccatg	2040
ctattgctgg	agcagagccgg	tccattgata	aatgtgcaat	gttcatgaag	cagtgaatat	2100
atcattcaat	taaaaaattca	gcaactgatg	tagtcaggga	tgtgctggta	aatgtctcac	2160
aactggcttt	ccaggaccgg	tttgcagcat	ttgctgattt	tcatggtgta	gacccttccc	2220
tcattgctga	catcaagcta	ccaatgggtt	ggcatctggc	ttgcacaact	gttttttatt	2280
tagcaatcaa	ctcgagcacg	ctggcacaag	ttgctccagc	cccagtaccg	gacatgactt	2340
aaagagtga	gggggtgaaa	attacagtca	aaggggggtcc	actacctacc	caaatcctat	2400
aaaacggccc	cacccctatc	tccctgogct	gactcctttt	tcggactcag	cccacctgca	2460
cccaggtgaa	ataaaacagcc	ttgttgctca	cacacacaca	cacacacaca	cacacacaca	2520
cacacacaaa	gagtaagggg	tgaaatggct	ttgcttgtaa	ctggattcca	agagaatca	2580
tcttagaccg	cacacctaag	tgtttacttt	attaccaact	atcatctcaa	agtgggagag	2640
aggatgggga	ttgggtcccc	ttttcagaaa	accctatga	aagagccctt	tagaaaaagg	2700
ctgggcttga	ggaagtctta	attctaaata	tcgoggatca	ggggaaggag	caggtcattc	2760
catttccctg	ggactcacat	gtataataag	cagatttcat	atctgagagg	cgtaagttcc	2820
cttctatttt	tgtgctcag	tgtgcaattt	agtcacaaaa	ttgactccgg	tgcatagcat	2880
taaattgtca	acagccagtg	ggctcctgaa	cataagcaag	gactaccag	acaggaggtc	2940
gggagtttct	aatgcatccc	cggggacctg	ctaggatctt	gacctctctc	tagagagggc	3000
tttgactga	ttcggcataa	cagtgggggc	agatctgctt	tctccaaggc	tgtctcttcc	3060
cttctatcag	tgatctccac	cttgctcagc	ccactcaatg	ctgcctttgc	tgttacagtc	3120
taagaaatgt	ggctcctttt	tcctaacctc	tcttctcctt	tcacctgcat	gtcataagggt	3180
ggtcatggat	atattctttc	atattcttgc	taaaatactc	attgctggaa	gtaacacaag	3240
ggtatcaaat	ttgtataaac	aacagtatga	tttagttctc	taataataata	atgcaatata	3300
acaaaatgag	tccattcaac	tggtgtccat	tcaactatac	cttaatatat	attattttat	3360
tgatgcttat	ctatgtatac	attagttctg	tgcacagtct	agtggatgt	gatctgttaa	3420
atggataaat	gaatgaatgg	ctgaagtttt	atccttctga	atggatgagt	ggcctctcta	3480

gttcattttc	aagcctctag	ggctatgata	catgtttcct	atttccagat	ttttctttat	3540
gttctctctt	tatttctaga	aaacacaaat	agcttctcgc	ccatgggggg	gattttttggc	3600
agggaaatcg	cactctttac	ctgtcatcca	ccttccagaa	atgcaggaaac	tgaaagactg	3660
agaaagtgga	aaacacgcca	tgcaattgct	aacagttggc	agagcagcaa	gtgcactcca	3720
gtgggtggca	tttgtccctg	tttctatgct	ctgatctgaa	gcttgtacaa	cagatgtacc	3780
aggggctgga	ggatggcagt	gctcatttgt	ggaggtgata	atctagaaa	acagctcagg	3840
ccatgactag	catagtcca	caggctgatg	aacctgttgg	tcctgctggg	cagtttttagc	3900
tcagcagcat	tttaaccatt	tgcaacgcta	gaagcaacgg	caaacattgc	taatgtaaca	3960
tttctttata	tggctagagt	gctggaacta	gatgtcatgg	aacttttcaa	aaatactgag	4020
gctttatgtt	cagttctgaa	taaaatttta	cctccaaatt	ttcttttttt	ttttgagatg	4080
gagtctcact	ctgtcgccca	ggctggagtg	cagtggcatg	atattggctc	actgcagcct	4140
ctgcctcctg	ggttcaagca	attctcctgc	ctcagcctcc	cgagtagctg	cagttacagg	4200
caccaccac	catgaccagc	taatttttgt	attttttata	gagacggggg	ttcaccatat	4260
tggccaggct	ggctctgaac	tcctcacttc	aggtggctcg	cccgcctcga	cctcccaaag	4320
ggctgggatt	ataggcgtga	gccaccatgc	tcagccaatt	tttatttttt	atttttcaaa	4380
attctatttt	attttaggtc	ctgggataca	tgtacagaac	gcaggattgt	tacataagga	4440
aa						4442

<210> 1978

<211> 872

<212> DNA

<213> Homo sapiens

<400> 1978

cttcaaaaagg	caaattctct	atttccccca	ctttgattat	ctgcttatgc	tcctaaaata	60
atgtaaatat	ggtcattaat	catctacaac	attgtcaatt	aggagagtaa	agccagtaat	120
gaactctaca	tccctgacct	catatggtat	gttgcatttt	aaggagctg	tttttatcaa	180
tgacaatcgt	attattttgt	ctcataacct	gggctctaca	tccagtgaag	ggattttgat	240
acagaatctt	tatttgaaga	gaactacaca	aaaacaccat	caccatcata	cctgatgtct	300
gctattgttg	aaataggctt	cagcactgta	gctgggtgga	accaggtcac	caaagacact	360
gcccttgtac	ctggaaggcc	cgtccctgcc	cccattcaca	cagtgaattc	atttagaaga	420
gaggaatgct	gtagacagag	tcattagaaa	acccttcatg	actgtggcgt	ggaaaagggc	480
tggcaaggat	cacaaacagc	tttctctggg	ttggctttac	agcatggact	tcttcaccct	540
catctacacg	taaaatttat	taacttcaag	gagaggagat	cagggttgcc	tctaccttgc	600
attcctatgt	agccatgaat	taattcccaa	atgccagtgt	gagcctgttt	tccttttcat	660
acatcgtatt	tgaggaaaca	gctggaaata	ttactctgtg	tgccacacat	cccgattcag	720
cacagtctct	tggtcccaga	gtggagtaaa	tgagtaaaga	aattattcat	ccgcctttta	780
cctaacttgg	tgtgtgacca	ataaattctc	tcaagattga	ttcaggttcc	tatattcatg	840
gaaacaaaaa	aagaaaattg	ggcagaaaaat	aa			872

<210> 1979

<211> 7881

<212> DNA

<213> Homo sapiens

<400> 1979

ccacaccagg	agtgtccagt	ccttgggcct	tggtcagcct	ggagcagttg	ctcggccccc	60
tgtggtgggg	gcactatgga	gcgacatcgg	acttgtgagg	ggggtcctgg	ggtggcacca	120
tgccaggccc	aggacacaga	gcaacggcag	gagtgttaac	tgcagccctg	ccctggttag	180
tgccctgggc	ggcaggtgac	tgactccctc	cattgtctgt	gagcccaggc	cctgccccag	240
ctgtgggggg	taggtgtggg	gagaggaggt	cggacccagg	gcagctccct	ccctgggact	300
ggagatgctg	ggtccctccc	atctccctac	ctgtgtgctc	cccacagagt	gcccccttgg	360
ccagggtgctt	agtgcctgtg	acacctcatg	cccgtgcctc	tgctggcatc	tgacgcctgg	420
tgccatctgt	gtgcaggagc	cctgcccagc	tggtgtgggc	tgccctggag	ggcaggtggg	480
tacggggtgc	tgtgtcctga	ctccctgtgg	gggaagccgg	caggtgggga	gggaagaggc	540
ggtggtctga	gtgtcactga	gcctgccctg	ctgcagctgc	tgacacaatg	cagtgtgtg	600
cctcccactg	cctgcccctg	caccacagcat	tctctgccct	ggggcctcac	cctgaccctg	660

gaagagcagg	cccaggagct	gccccaggg	actgtgctca	cccggaaactg	cacccgctgg	720
tgagggcctg	gccctggggt	ggggagcagg	gatgaggaag	ggtagggagg	aggacatggg	780
aggcatctga	gtgtgcttct	gtcttctcag	tgtctgccac	ggtggagcct	tcagctgctc	840
cctcgttgac	tgtcaggggtg	agatgtggct	gtccatgccc	tgctgcacct	ccaaagtcaa	900
ggcccgggac	tggcactgag	gaggagagac	gggcccgtgt	cacagactag	acagagcttc	960
agaaaagccct	cccctgtctg	tccacactga	cctctctcta	actggagcc	cagcaccccc	1020
tgccgagggc	tccctgggca	ctcagtgtgg	tctgccccac	ttgtgggggc	attccctagc	1080
acacagtata	cacagagcca	gggctgtgat	gccaggaagt	ggaaggttct	ttccctgcc	1140
gtgaggaaac	tgaggtctgg	aggggtgagc	ggaaatgagg	ggcctggcct	ggcagcccc	1200
gggctgatag	catttgccct	gtggggtgca	gtgttacccc	catctgatca	agaccaaggg	1260
cccacccacc	gtgttcccag	ctctgccacg	ctgggctctg	tgaatgcaga	catgcagcat	1320
ggccagcttc	cgggcagacc	acccaccccc	agaacaggca	gagacagggc	acagtctcta	1380
ggctctctg	aggcaggtag	aacccacag	ggtgagacat	agtgtgag	aatagaggcc	1440
gagtggacag	gattggtcag	ggagcctttt	ctggaggagg	tgagacctgg	cctgggtcca	1500
gctagtgttt	gggtgggtgg	ataagaaaga	tcaggagggtg	tggttgagg	ctgctgtggc	1560
tgagaaggca	agatggggac	gtgtgggtgc	tcagcttggg	aggggaggaa	tcgaggctgg	1620
atccagggt	gacctgaaag	ctgggttgga	tggtcttccc	tggcagagt	ccccctgggg	1680
aaacgtggca	gcaggtggcc	ccgggggagc	tggggctctg	cgagcagacg	tgcttgaga	1740
tgaacggcac	aaagaccag	agtaactgca	gttcagctcg	agcctcgggc	tgctgtgccc	1800
agcccgggca	cttcgcagc	caggcaggcc	cctgcctccc	cgaagaccac	tgcgagtgt	1860
ggcaccttgg	gcgtccccac	ctggtgagac	accgaacccc	ctctgtacc	actcacccat	1920
tcctgacccc	aagcctcccc	atctgtctgt	aactccactg	gctcctcccc	ctactccagg	1980
ccctgcagca	gccggcagg	ctccgctctc	cccctgggac	agtctctggc	cccaacagtt	2040
catctccttc	ctgggtctct	tgttgccctga	ctccatccaa	gcccattgcc	ccggctaggc	2100
actcacaggc	tgggcttggg	gatcagggat	actattatag	aaaagtctgc	aagttggagc	2160
cgggcacggg	ggctcatgcc	tgtaatccca	gcactttggg	aggctgaggt	aggcggtaca	2220
tgaggctcag	agatcaagac	catcctggcc	aacatggtga	aaccccatct	ctactaaaaa	2280
tacaaacatt	agctgagagt	gctggtgctg	gcctgtagtc	ccagctactc	gggaggctga	2340
ggcgggagaa	tcacttgaa	tggggagggtg	gaggttgag	tgagccgaga	ttgtgccact	2400
gcactccagc	ctggcgacag	agtgagactc	cgtctcaaaa	aacaaaacaa	aacaatacaa	2460
aacaaaacaa	aacaaaacaa	aacaaatctg	caagttggga	gagaccaaga	ggaggctctc	2520
ccctactctc	cccagcctgg	atctgaatgg	caggaggcct	gtgagagctg	cctctgcctc	2580
agtgggaggc	ctgtctgcac	ccagcactgc	tccccactca	cctgtgctca	ggtacgccct	2640
gcacccctgc	tactctccgg	ggtggttccc	cccttacctg	ggctccggta	ccccctgcag	2700
ccctaccacc	ctccctggtt	cctcgggctc	cttccctggg	ccctcctccg	aggttggtct	2760
tagggctctc	gagtggggag	ggcgggccc	gctccagggtg	tcaagaccac	cttgggactc	2820
tctccctctg	cagggcgagg	agatggtgct	ggagccagg	agctgctgtc	cctctgccg	2880
cagggaggct	ccgggtatgg	agggaacctg	ggtgcattgt	ggggtgcctc	tccttggtct	2940
agacccttct	cccctgccac	cccacacctg	gcctttgcag	cctggcagct	gcctgactcc	3000
cccaggccaa	cccaccatgg	ggatttgagg	agtgaagacc	ccagcacata	tcatagcgcc	3060
tggtcacctc	gccccacacg	cttccctcag	acccaggccc	tgccctctt	cccacagtcc	3120
cctcagtccc	ctcctcctcc	tgtgctctgt	cccccccccc	acagtctcct	cagtcacccc	3180
ctcctcctgt	gtccctccca	cagtccctcc	agtcaccccc	tcctcctcct	gtgctctgtc	3240
ccccccacag	tccctctctg	catctcctcc	tcctgtgtcc	tctacagtc	cccttagtccc	3300
ctcctcctcc	tgtgtccccc	tccacagtcc	ctcagtcacc	tcctcctgtg	ccttcccgc	3360
cagtcctcct	agtcacctcc	tcctctgtcc	ccccacagtc	ccctcagtc	ccctcctcct	3420
cctgtgctgt	ccccacagtc	ccctccatc	atccccccca	cctgtgtccc	ctccacagtc	3480
ccctcagtc	cctccacctc	ctgtgtcctc	ccacagtc	ctcagtc	tcctcctgtg	3540
tcctccacac	gtctcctcag	tcacccctcc	ctcctgtgtc	ccctcagtc	tcctcctcct	3600
ctgtgtcccc	tccacagtcc	ccgcagtc	ccctcctcct	tgtgtcctcc	tccacagtct	3660
cctcagtc	ctcctcctgt	gtccccccca	cagtcctcct	agtcactcc	tcctcctgtg	3720
ccctccccca	cagtcctcct	catcatcccc	tcctcctgtg	tccccccac	agtcctcctca	3780
gtcacctcct	cctctgtccc	cccgcacagt	ccctcagtc	acctcctcct	cctgtgcctt	3840
ccgcacagtc	ccctcagtc	acctcctcct	ctgtcccccc	acagtcctcct	cagtcctcctc	3900
ctcctcctgt	gctgtcccc	acagtcctcct	ccatcatccc	ctccacctgt	gtccccccca	3960
cagtcctcct	agtcctcctc	acctcctatg	tcctccacac	gtccctcag	tcctcctcctc	4020
ctgtgtcctc	ccacagtctc	ctcagtcac	ccctcctcct	gtgtccctc	cacagtcccc	4080

tcagtcaccc	cctcctcctg	tgccccctcc	acagtccect	cagtccectc	ctcctcctgt	4140
gtcctccca	agtccccca	gtccccctcc	cctgtgtcct	cccacagtct	cctcagtcac	4200
ccccctcct	tgtgtcccc	ccacagtcac	cctagtcacc	tcctcctcct	gtgccttccc	4260
gcacagtcac	ctcagtcacc	tcctcctcct	ccccccccc	cagtccectc	agtcacctcc	4320
tcctcctgtg	ccctccacaa	cagtccectc	agtcaccccc	tcctcctgtg	tcctcctcca	4380
cagtcctcct	agtcacctcc	tcctcctgtg	tcctcccaca	acagtccect	cagtcacccc	4440
ctcctcctgt	gtccccctca	cagtccectc	ctcctctgtc	ccccccacag	tcctcagtc	4500
cctcctcctc	ctgtgcctcc	cctccacagt	cccacagtc	acctcctcct	cctgtgtcct	4560
cccacaacag	tcctcctcag	catccccctc	tcctgtgtcc	tcctcacagt	ccctcagtc	4620
cctcctcctc	ctgtgcctcc	ccccacagtc	ccctcagtc	cctccttctc	ctgtgcctcc	4680
cctccacagt	ccctcagtc	acctcctcct	gtgtccttcc	acagtcctcct	ctgtcacctc	4740
ctcctcctgt	gcctccctcc	cacagtcctcc	tcagtcaccc	cctcctcctg	tgctcctcca	4800
cagtcctcct	agtcacctcc	tcctcctatg	cctccccctc	acagtccect	ctgtcacctc	4860
cttctcctgt	gcctccccc	cagtcctcct	tgctcacctcc	tcctcctgtt	tcctcctgca	4920
ttccccctgt	cacctcgctc	tcctgtgcct	ccccaccccc	acagtccect	cagtcacctc	4980
tgctcctgt	gccccacccc	cacctcctgc	cactcaatgc	ccctccccc	agaggagcag	5040
tcgccccct	gccagtcct	cacggagctt	cgaaacttca	ccaaagggac	ctgttacctg	5100
gaccaggtag	aagtgcgcta	ctgcagtggt	tactgcccac	ccagcaccca	tgctatgcca	5160
gaggtgagcc	aggcagctgc	tgctcagggc	aggggaatca	cggtggccag	tgccaccga	5220
gggctgccct	gagcctggga	cctgggcaga	accagagtc	atgaggcaca	aggtgcttct	5280
gatggagata	acagtgaggt	tggggagggc	gatgggcaga	gctttcccca	aggcagtggt	5340
gtgcacctgc	aggttgggcc	agaggtttca	ctgggtgcct	gacccccctc	cacagaggtc	5400
ttctgtggcc	ccacaccatt	cccagagtg	gcccgtgtg	cccttcaagg	caatgagcca	5460
ggagcccagc	aaagaaaggc	atggaggagc	taagctagcc	tctgacatca	gaacccatca	5520
cacggtgcat	gagagcatga	gagctctgcc	ggaatgcact	ttctacagag	aggcacccg	5580
cacacatttc	ctgcaagctg	tcgagccag	gctggctctg	agtcttgggc	aggtggctcc	5640
gctctgcgtt	ggacccagaa	gcccctgac	cttcttagga	tcttccaaag	tcctccaaag	5700
ggctctgtgc	ccacccctgac	tcctcctcag	ctgatgagct	gtaacctgag	ctgcctcctg	5760
ccagggctct	ctctccagct	tcactcacac	tactcctgcc	tgccccctag	cccacctccc	5820
agcactctgc	ggccatccct	tctgcttcag	cctacctggt	ttacctcatc	ctggaagaca	5880
aggatacttt	cctacctggt	ccccaaagac	acagccccct	aacctctggc	cgctctacgg	5940
ctccccccag	cgcgccctgg	acctcctgga	aatactttcc	caaatact	tcggaatttt	6000
ttttcacact	tttagaattt	ttaaaacata	gagtgagaaa	agagagaaa	taattaagag	6060
atgctttttt	tttttctctg	aggaaaagaa	ttgatagtg	gatacaaat	ggagggaaat	6120
tttttcgctg	aaaaacctct	tgaggttttt	gaacctggca	ttgtatgaat	gtactaccca	6180
tttaaaagta	aaattataaa	tagaattata	cataaaatta	aatgatatgc	ttataggact	6240
ctgatataag	tgctttaacc	acagtcgaca	gggatctgct	ttggagtga	aactcacttt	6300
gcacttgga	tcagaactat	gcagttagaa	ctgacttatt	tgtagtttca	tagattataa	6360
ctctgtctgt	ccaactagac	tctaagcccc	ttgcggtaga	agatgtcct	tcctcctgca	6420
gccaggaggc	actgatggga	acgttaaaa	tattogttta	acctgtaggt	tggtggacat	6480
tcagacagtg	ggggtgaagg	aggtgggctt	cttgcaaaa	gggcttgga	gtggcccagc	6540
cacctgtctc	agtgaagagg	gtgggatctg	gcccctccac	catcccaccc	tgccaaagat	6600
gggaaaggcc	aaggagggg	aggaaactcc	atgtggccct	agttcacccg	ctcctctctg	6660
cccaggagcc	atacctgcag	agccagtggt	actgctgcag	ctaccgtcta	gacccggaga	6720
gcccgtgtgc	gatectgaac	ctgcgctgtc	tggttgggca	cacagagccc	gtggtgctgc	6780
cggtcaccca	cagctgccag	tgagctcct	gccagggtg	gtctgggcag	ggaggggacg	6840
gggcaggagc	ctgggcaagg	acccagtggt	gtgaaccaga	cccaggaaca	cacgtgtagc	6900
tcctcactcc	atccttcttc	cttgagtcct	tcagtcacac	gtttttcctt	cttctcggtg	6960
ttcttgttaa	tttcatctcc	tatcatgcac	acttggtggg	gtctggggta	gttgacaccta	7020
gttcaaacc	cagctcatct	gtttcctttg	tttcttgcct	cagcctccct	gacatcatct	7080
tttttttttt	ttttttttgt	gatggggctt	cactctgtca	cccaggctgg	agtgcagtg	7140
tgtagctctg	gctcactgca	gcctggaact	cctggtctca	ggtgatcctt	ccgctcagc	7200
ctctcagta	gcccggacca	caggtcacag	gttgagcca	ccatgcggg	ctaatttttc	7260
ttttcctttt	tttttttttt	ttttttttct	gtagggacgg	ggtttgcgca	tggtgcccag	7320
gctgttcttg	aactcctggg	ctcgagtgat	ccacctgcct	cagcctccca	atgcgctggg	7380
gttacaggca	ggaaccactg	caccagcccc	cctgacctca	tcttttaagc	aaggctgaca	7440
ttgctatgca	ggctgtgtgg	gtggacttgg	tgagggcacg	cgtgtgaagt	ggctggcag	7500

tgcctagttc	tgtaagcac	ctgccatatg	ataacctgag	gtccactgt	gtggcagatg	7560
aaggggaaac	agaggtggaa	ggcaccctgt	ccacctgggt	ggagcacagt	ggaaggcctg	7620
gtgttggtct	tgggcgtcct	cctggcæcca	gcctgaccac	tctgcctctc	ttactaacc	7680
atctctccct	cacgtgtccc	ctgggaggtg	acttctcaaa	gcgctaacag	gctccgctgg	7740
gtgagtcac	agctgtccct	cttgtgatca	tgggactcag	cagcactgac	cacgtccttc	7800
cacgtctctc	cacctgcccc	caactggggg	cccatgactt	ggcattagca	tgttccamt	7860
aaagtgtatc	tggcaacaaa	t				7881

<210> 1980

<211> 2304

<212> DNA

<213> Homo sapiens

<400> 1980

cttcctccac	ctggacaccc	agggctgcta	ctcagggccc	tgcccaggtg	agtgttcagg	60
ggaagtgaac	tcacctctct	acttttccta	ccttgggaga	ttcagaaaat	aaatgttcct	120
agttcccggg	tcattccctta	aaataagcct	gccctgtctg	tgcccccatg	ttttgtctag	180
ttcctttcct	cttcccaccca	tctcttccct	cggggccctc	cttgtagggg	gagagggcgt	240
ccagccagct	gggcctttca	ggccctctct	gcctgtttcc	tgtgcagggt	ctcggagg	300
ctggggtgag	agggagggca	ggcaggggag	aggtgggctg	acacaccctc	ccggtcccta	360
gaggagtgtg	tgtggagcag	ctggagcagc	tggacgcgct	gctcttgccg	ggtgctggtg	420
cagcagcgct	accgacacca	gggcccggcg	tcccaggggg	ccagggcagg	cgccccctgc	480
acgcggctgg	atggccactt	ccggccttgc	cttatcagca	actgctctgg	tgaggctcca	540
gcagcaagtt	aaccagggag	ctgcgcaggg	cagcagccac	caagggtccc	tgctggaact	600
ccctgtctcc	ctcccctcac	agccaatgta	gtgcccacag	acctcagagc	agctgcctgc	660
gcccgtgcct	gccctcaaac	ccagctgctc	ccctgtctcc	cccagatact	ccctcatcac	720
agctgcgacc	ccaatccctc	accacaattt	gtccaccctg	cagctgccgg	cccgcctgtg	780
gctttggccc	atgtagctgc	cctctaggag	ggtgtcttac	ccagctcctg	ctgcggctgc	840
cctccatctc	tgcccctctg	tctcccatct	ctgcccctct	gtctcccatc	tgccaatttc	900
tggagcacct	gccaaggccc	ctcactcctg	cagccccctc	ctcagctgcc	tcctccaggc	960
atcttctctg	ctctccaagg	cccaacccat	cctgatcctt	ccctggagggt	gcccacaggt	1020
gctgagtggg	tgccagatgg	gggatactgg	tctgtttcaa	cttgccggagg	gtgggcatct	1080
tgtactctca	ccaggtgacc	ccaagggccc	cagtagagcc	acgggcatg	tgctctgggc	1140
tttgggagtg	atgtctctgg	gctgttcccc	cacaagcctg	cctctccccc	atctccccc	1200
gaggacagct	gcacgcctcc	ctttgagttc	catgcctgcg	gctccccctg	tgctgggctc	1260
tgtgccacac	acctgagcca	tcagctctgc	caggacctgc	cacctgcca	gccgggctgc	1320
tactgcccac	aggtgagagc	tgggagctgg	agcaacttcc	aaggagaagg	gggtcttctg	1380
cccacactcc	tgctcctcct	tctttctgtg	atgtccatgg	cggccccacc	tccttcaaac	1440
cccttggaac	tcggtgcctc	ctcccagctt	gccattcact	cggcatcatg	catatgcacc	1500
tgctgcaggc	ggggcacagt	gctgggtgct	gggatgacæ	gatgatcact	gccccatctc	1560
tccttccacc	caggggctgc	tggagcaggc	tgggggctgc	attccccccag	aggagtgtaa	1620
ctgctggcat	acctcagcag	caggagccgg	gatgacctgc	gcccctgggg	accgcctgca	1680
gctgggctgt	aaggagtggg	gagtgatggg	ggaagggaga	cagagggctg	gggccaggga	1740
atagggcagg	gaggcctggg	gggcccagtc	cagcctcagg	acagaggacc	ctgagatgct	1800
agagtttgca	gctccctcat	cttgcccca	atgtgcctag	gggtcagggt	acccttgcat	1860
gaccaccccc	accccccgga	ggtcctggac	tgggtcctgc	ctcccttagt	ctaccctgac	1920
tacccccctc	cacagtgaat	gccggcgtgg	ggæctgcac	tgaccagacc	agggctgtca	1980
aggtaaccct	gacctatgga	gacaacagtc	cccattgctt	gggactgggg	gagtttctgg	2040
gatgcagaac	tttcagtgtc	aagacgggga	cagtcccagg	caaactggga	tgggtgggtca	2100
ccttaccctg	ccccacacc	accctcagcc	tttctgtttc	cagcacttcc	tggtcatgac	2160
cctgagcccc	tcctgcctgt	ccaccagggt	ctctgggccc	aggggtgggt	actgggaagg	2220
gcaccacac	cctgtccttc	caggtcttct	gcctctgagt	gagtgggtccg	agtggctgcc	2280
ctgtgggccc	tgctgcccgc	ccag				2304

<210> 1981

<211> 4410

<212> DNA

<213> Homo sapiens

<400> 1981

ccaccaggg	cctgagtcct	gtccacaccc	caggtgacgg	cgggtccac	aaggcagtga	60
gcgtgggccc	ccgggtgcac	atcattgagg	agctgcagat	cttctcatcg	ggacagccc	120
tgcagaatct	gctcctggac	acccacaggg	tgagcaggcc	aacgaggaat	cctggcaggg	180
tacttggggg	gtgccctcca	ttagcaccaa	gcagtcccca	cccagcttct	cctcccttgc	240
ctcaggagga	tggaaagata	aaggatccag	tcatgaacta	ttagaaagtg	gggtgcgctg	300
ttacgtaaca	ggcctcttgg	gggtggctct	gggaggcata	caagccgggt	ggccatgggt	360
gatggccctg	gctgcccatt	cccgdtctc	atccccgtgt	ctggctgtgc	aggggctgct	420
gtatgcggcc	tcacactcgg	gcgtagtcca	ggtgcccatt	gccaactgca	gcctgtacag	480
gagctgtggg	gactgcctcc	tegcccggga	cccctactgt	gcttggagcg	gctccagctg	540
caagcatgac	agcctctacc	agcctcagct	ggccaccagg	tgagcactcc	caaaggccc	600
ttcccatctg	tccagccctg	cacaggtgac	ctcggagcac	catcctgggc	cctccttggg	660
accgccacac	agcctcgttt	atgtccactg	tctcagcata	attattaatt	agctctcctg	720
cttctctca	agtgaattc	agacagga	ttgtgtgtt	atcttggcta	cctgtaaaac	780
gaggacatga	tttggtaaag	tatgaaatag	cacagctttg	aaaagccttg	caggaaaatg	840
tggattagcg	tgtgaacgtg	ctttagtaat	agtagggcta	ggaaacagtc	cattaacaaa	900
accgataaaa	attgggttca	gaataaccta	tttgattat	aaaatgttca	tttagaaaat	960
gggatgaac	acaaagcaaa	actaccctc	atcccaccac	ctagagagaat	cgcagtgag	1020
attttgatata	attatcctct	caggttttac	tacatatgtg	tatagataac	aaaaatcctt	1080
ttattttatt	tcatttctatt	tcattttatct	tgtttgaga	ctcgctctgt	cgcccaggct	1140
ggagtgcagt	ggcacaatct	cggttcactg	caacctccac	gtcctgggtt	caagcgattc	1200
tctgcctca	gcctcccaag	tagcagggat	tacaggtgcc	cgccaccatg	cccagcta	1260
ttttgtattt	atagtggagg	cagggtttca	ccatgttggc	caggctggtc	tcgaacttct	1320
gacctcagat	gatccacca	ccttgggctc	ccagatggcc	gggattacag	ccatgagcca	1380
ccgcgtctgg	ccaaacattc	atatatttta	tataacattg	gcaatgtcc	tgttttagt	1440
gttcttgctt	cacatatgga	tacacctggt	gtcagttttt	acaaaaacca	agtgagtttt	1500
ggtgcgtatg	ccaggaggga	cacccagaa	tgtaactgt	catgatcact	ggctggtaga	1560
tgctgtgatt	tttgtagtgt	tttcatcctt	cgtgcctggt	tgacttatct	gtctcctgag	1620
tgtatccaga	attactgtcc	tttatttttt	attacacaga	tgtatgcatt	tgactgttt	1680
aaaaaaaaag	atgagaacac	atcaaaaaaa	attttaatta	aaaaaaagaa	aaagagagat	1740
ctatacatat	agatcccaga	gtctcttcta	atctttttct	gaggttacat	actatttttt	1800
attattattt	tttgagacag	ggtctctctg	tggtgctcagg	gctggagtgt	agtgggtgtg	1860
ttacagctca	ctgcagcctt	ggcctcctgg	gctcaagcaa	tcgatcctcc	aacctcagcc	1920
tcttgagcag	gtggaaccac	aggcgtgcgc	caccatgcct	ggctaatttt	tctatttttt	1980
gtagagatgg	ggtctcgcta	tggtgcccag	gttgcttga	attcctgggc	tcaagcgatc	2040
taccggcctt	ggcctcccaa	agtgcctgga	ttacaggcgt	gggccaccat	gcctggccac	2100
tgaggggtaca	tactgtttat	gtaattaaag	gaagtgttat	cttagctttg	acttgaaata	2160
atgtgtagac	agaggagatg	ctgactcctg	tgggtgggga	atcagctcag	gaaaggcctt	2220
tgcccaggcc	caagtctgca	gtgaggggtg	aggatgtg	agctcagggg	acttctctggc	2280
caatcccaga	attctctctg	gccctcaggc	cgtggatcca	ggacatcgag	ggagccagcg	2340
ccaaggacct	ttgcagcgcg	tcttcggttg	tgtcccctgc	ttttgtacca	acaggtgagg	2400
tgccccctca	aaaggtggag	gagagaggtg	gggacaagtg	tgcttgggaag	gtccccccag	2460
gcacagatgt	tgtaaatgcc	tttctcact	tccttgcccc	ctaccctctgt	aagcaggtcc	2520
ccaggaagac	tcagtcccag	gggtcccggg	agttgcccat	cgtggcacca	ggggcatagc	2580
cagagggagg	caggggagct	tggagctact	gtggacgctg	gcacccccct	accccatgcc	2640
ttttctgcct	acaggggaga	agccatgtg	gcaagtccag	ttccagccca	acacagtga	2700
cactttggcc	tgcccgtctc	tctccaacct	ggcgaccga	ctctggctac	gcaacggggc	2760
ccccgtcaat	gcctcggcct	cctgccacgt	gctaccact	ggggacctgc	tgctgggtgg	2820
cacccaacag	ctgggggagt	tccagtgtct	gtcactagag	gagggcttcc	agcagctggt	2880
agccagctac	tgcccagagg	tggtggagga	cgggtgggca	gaccaaacag	atgaggggtg	2940
cagtgtacc	gtcattatca	gcacatcgcg	gtgagtgc	ccagctggtg	gcaaggccag	3000
ctggggtgca	gacaggtcct	actggaagga	gttcctggtg	atgtgcacgc	tctttgtgct	3060
ggccgtgctg	ctcccagttt	tattcttgct	ctaccggcac	cggaacagca	tgaaagtctt	3120
cctgaagcag	ggggaatgtg	ccagcgtgca	ccccaaagacc	tgccctgtgg	tgctgcccc	3180
tgagaccgcg	ccactcaacg	gcctagggcc	ccctagcacc	ccgctcgatc	accgagggtg	3240

ccagtcacctg	tcagacagcc	ccccgggggc	ccgagtcctc	actgagtcag	agagaggcc	3300
actcagcatc	caagacagct	tcgtggaggt	atccccagtg	tgcccccgcc	cccgggtccg	3360
ccttggtcgc	gagatccgtg	actctgtggt	gtgagagctg	acttccagag	gacgctgccc	3420
tggcttcagg	ggctgtgaat	gctcggagag	ggteaactgg	acctcccctc	gctctgctct	3480
tcgtggaaca	cgaccgtggt	gcccggccct	tgggagcctt	ggggccagct	ggcctgctgc	3540
tctccagtca	agtagcggaag	ctcctaccac	ccagacaccc	aaacagccgt	ggccccagag	3600
gtcctggcca	aatatggggg	cctgcctagg	ttgggtggaac	agtgtctcctt	atgtaaactg	3660
agccctttgt	ttaaaaaaca	attccaaatg	tgaaactaga	atgagaggg	agagatagca	3720
tggcatgcag	cacacacggc	tgctccaagt	catggcctcc	caggggtgct	ggggatgcat	3780
ccaaagtggg	tgtctgagac	agagttggaa	accctcacca	actggcctct	tcaccttcca	3840
cattatcccg	ctgccaccgg	ctgccctgtc	tcactgcaga	ttcaggacca	gcttgggctg	3900
cgtgcgttct	gacttgccag	tcagccgagg	atgtagtgtg	tgctgccgtc	gtcccaccac	3960
ctcagggacc	agaggggctag	gttggcactg	cggccctcac	caggtcctgg	gctcggagcc	4020
aactcctgga	cctttccagc	ctgtatcagg	ctgtggccac	acgagaggac	agcgcgagct	4080
caggagagat	ttcgtgacaa	tgtacgcctt	tccctcagaa	ttagggaag	agactgtcgc	4140
ctgccttcct	ccgttggttg	gtgagaaccc	gtgtgcccct	tcccaccata	tccaccctcg	4200
ctccatcttt	gaactcaaac	acgaggaact	aactgcaccc	tggctcctctc	cccagtcctc	4260
agttcacctc	ccatccctca	ccttcctcca	ctctaaggga	tatcaaacct	gcccagcaca	4320
ggggccctga	atttatgtgg	tttttatata	ttttttaata	agatgcactt	tatgtcatct	4380
tttaataaag	tctgaagaat	tactgtttta				4410

<210> 1982

<211> 1251

<212> DNA

<213> Homo sapiens

<400> 1982

tgcagtaaaa	tagactttac	tgatgtacgg	ttctttacatt	tttgatgcat	gcagagactc	60
atctaaccac	cacccaatc	aggatacagg	cgagtcacc	acctcctgct	gccccttcat	120
cctcacaccc	tcccacgggg	acagccagcg	tgggtgcggc	ttgacttccc	gctggcctct	180
gctcgatatg	ctgcttatct	ctaggatgat	tgaaggctct	tagaagagaa	gtccagtcct	240
tctcatatac	agtgtatctc	atgtcacaca	taggggtcaaa	cttctaaacc	tttattactg	300
attagtacaa	acacaaaacg	agcaatgaca	acagcagtga	ggagaggccc	tgacaacgag	360
ggccgcccct	gcccgggggtg	aggctgcaca	gcgccagctc	caggctgggc	cagcttggcg	420
acactggcaa	cacaggcttg	accttggcca	cagctagca	gtagaaagg	tcttggacag	480
gggtgccagga	cacacgctgg	ggctgctgtc	acaggacaat	cttaaaggag	ctgaacaaga	540
gaaaagcggg	gggttttctg	ctggaagagg	agggcagggg	ctaaacccga	acttgccccc	600
ttctcccttt	agacccttct	ttggaacggg	ctatgttccg	tgtgtcagcc	ccctctgcaa	660
gaactccccg	agacatccag	agggagcttt	ctggaccac	acactgggtc	agagcttcta	720
aacctttatt	actaatgagt	acaaacacag	agcaatgaca	atggcagtgg	gaaggggaga	780
ggtcttgaca	aggagggctg	cccctgcccg	gggcgagact	gccagcttag	ccggccctgt	840
gtgtggggac	tggggctttc	tctcaccctg	gcaccacctc	ctgtagccat	gccctaggcc	900
cagaggcagc	aggtcggaac	ctgcagggtac	ccagaatgaa	gggggaccac	tgtcatacct	960
ggcaaagtct	ggagaacggg	agatgacgtg	ctggaactca	gagagggtga	tggttccatc	1020
cctgtcaatg	tcagactcct	ccaggatctg	ggaaagggag	agtttcaggc	cagagcccca	1080
actgtccctc	cccgtcctca	ggcctgctca	gctgtctacg	ttgtcgatga	gctgcttcat	1140
ctcagacgca	ctaagccgtg	tgtcctcgcc	ctctcccgtg	aggcagttca	ccagccggct	1200
caggtcttct	ctgttcaagg	ttccgtcatc	atcaaagtct	agagagcaga	c	1251

<210> 1983

<211> 7421

<212> DNA

<213> Homo sapiens

<400> 1983

agtatgagcc	gcacagccta	cacgggtggga	gcccctgcttc	tcctcttggg	gaccctgctg	60
ccggctgctg	aagggaaaaa	gaaaggggtcc	caaggtgcc	tccccccgcc	agacaaggcc	120

cagcacaatg	actcagagca	gactcagtcg	ccccagcagc	ctggctccag	gaaccgggg	180
cggggcaagg	gcggggcact	gcatgcccgg	ggaggaggtg	ctggagtgcca	gccaagagggc	240
cctgcatgtg	acggagcgca	aataacctgaa	gcgagactgg	tgcaaaaacc	agccgcttaa	300
gcagaccatc	cacgaggaag	gctgcaacag	tcgcaccatc	atcaaccgct	tctgttacgg	360
ccagtgaac	tctttctaca	ccccaggca	catcgggaag	gaggaagggt	cctttcagtc	420
ctgctccttc	tgcaagccca	agaaattcac	taccatgatg	gtcacactca	actgccctga	480
actacagcca	cctaccaaga	agaagagagt	cacacgtgtg	aagcagtgtc	gttgcatatc	540
catcgatttg	gattaagcca	aatccaggtg	caccagcat	gtcctaggaa	tgagcccca	600
ggaagtccca	gacctaaaac	aaccagattc	ttacttggct	taaacctaga	ggccagaaga	660
acccccagct	gcctcctggc	aggagcctgc	ttgtgcgtag	ttcgtgtgca	tgagtgtgga	720
tgggtgcctg	tgggtgtttt	tagacaccag	agaaaacaca	gtctctgcta	gagagcactc	780
cctattttgt	aaacatatct	gctttaatgg	ggatgtacca	gaaaccacct	caccccggtc	840
cacatctaaa	ggggcggggc	gtggtctggg	tctgactttg	tgTTTTTgtg	ccctcctggg	900
gaccagaatc	tcctttcgga	atgaatgttc	atggaagagg	ctcctctgag	ggcaagagac	960
ctgttttagt	gctgcattcg	acatggaaaa	gtccttttaa	cctgtgttg	catcctcctt	1020
tcctcctcct	cctcacaatc	catctcttct	taagttgata	gtgactatgt	cagtctaatc	1080
tcttgtttgc	caaggttcct	aaattaattc	acttaaccat	gatgcaaagt	tttttcattt	1140
tgtgaagacc	ctccagactc	tgggagaggc	tgggtgtgggc	aaggacaagc	aggatagtgg	1200
agtgagaaa	ggaggggtga	gggtgaggcc	aatcagggtc	cagcaaaagt	cagtagggac	1260
attgcagaag	cttgaaaggc	caataccaga	acacaggctg	atgcttctga	gaaagtcttt	1320
tcctagtatt	taacagaacc	caagtgaaca	gaggagaagt	gagattgcca	gaaagtgatt	1380
aaactttggc	gttgcaatct	gctcaaacct	aacaccaaac	gaaaacata	aatactgacc	1440
actcctatgt	tcggacccaa	gcaagtttagc	taaaccaaac	caactcctct	gctttgtccc	1500
tcaggtggaa	aagagaggta	gtttagaact	ctctgcatag	gggtgggaat	taatcaaaaa	1560
cctcagaggc	tgaaattcct	aatacctttc	ctttatcgtg	gttatagtca	gtcattttcc	1620
attccactat	ttcccataat	gcttctgaga	gccactaact	tgattgataa	agatcctgcc	1680
tctgctgagt	gtacctgaca	gtagtctaag	atgagagagt	ttagggacta	ctctgtttta	1740
gcaagagata	ttttgggggt	ctttttgttt	taactattgt	caggagattg	ggctaaagag	1800
aagacgacga	gagtaaggaa	ataaagggaa	ttgecttgg	ctagagagta	gttaggtgtt	1860
aatacctggt	agagatgtaa	gggatatgac	ctccctttct	ttatgtgctc	actgaggatc	1920
tgaggggacc	ctgttaggag	agcatagcat	catgatgtat	tagctgttca	tctgctactg	1980
gttggtatga	cataactatt	gtaactattc	agtattttact	ggtaggcact	gtcctctgat	2040
taaacttggc	ctactggcaa	tggctactta	ggattgatct	aaggggccaaa	gtgcaggggtg	2100
ggtgaacttt	attgtacttt	ggatttgggt	aacctgtttt	cttcaagcct	gagggtttta	2160
atacaaaactc	cctgaataact	ctttttgcct	tgtatttctc	cagcctccta	gccaagtccct	2220
atgtaatatg	gaaaacaaac	actgcagact	tgagattcag	ttgccgatca	aggctctggc	2280
attcagagaa	cccttgcaac	tcgagaagct	gttttttattt	cgTTTTTgtt	ttgatccagt	2340
gctctcccat	ctaacaacta	aacaggagcc	atttcaaggc	gggagatatt	ttaaacaccc	2400
aaaatgttgg	gtctgatttt	caaactttta	aactcactac	tgatgattct	cacgctaggc	2460
gaatttgtcc	aaacacatag	tgtgtgtgtt	ttgtatacac	tgtatgaccc	caccccaaat	2520
ctttgtattg	tccacattct	ccaacaataa	agcacagagt	ggatttaatt	aagcacacaa	2580
atgctaaggc	agaattttga	gggtgggaga	gaagaaaagg	gaaagaagct	gaaaatgtaa	2640
aaccacacca	gggaggaaaa	atgaatttca	gaaccagcaa	acactgaatt	tctcttgttg	2700
ttttaactct	gccacaagaa	tgcaatttcg	ttaacggaga	tgacttaagt	tggcagcagt	2760
aatcttcttt	taggagcttg	taccacagtc	ttgcacataa	gtgcagattt	ggctcaagta	2820
aagagaattt	cctcaacact	aacttctactg	ggataatcag	cagcgtaact	accctaaag	2880
catatcacta	gccaaagagg	gaaatatctg	ttcttcttac	tgtgcctata	ttaagactag	2940
tacaaatgtg	gtgtgtcttc	caactttcat	tgaaaatgcc	atatctatac	catattttat	3000
tcgagtcact	gatgatgtaa	tgatatattt	tttcattatt	atagtagaat	atttttatgg	3060
caagatattt	gtggtcttga	tcatacctat	taaaataatg	ccaaacacca	aatatgaatt	3120
ttatgatgta	cactttgtgc	ttggcattaa	aagaaaaaaa	cacacatcct	ggaagtctgt	3180
aagttgtttt	ttgttactgt	aggtcttcaa	agttaagagt	gtaagtgaag	aatctggagg	3240
agaggataat	ttccactgtg	tggaatgtga	atagttaaat	gaaaagttag	ggttatttaa	3300
tgtaattatt	acttcaaatac	ctttggtcac	tgtgatttca	agcatgtttt	ctttttctcc	3360
tttatatgac	tttctctgag	ttgggcaaaag	aagaagctga	cacaccgtat	gttggttagag	3420
tcttttatct	ggtcagggga	aacaaaatct	tgacccagct	gaacatgtct	tcctgagtca	3480
gtgcctgaat	ctttattttt	taaattgaat	gttccttaaa	ggttaacatt	tctaaagcaa	3540

tattaagaaa	gactttaaat	gttatTTTTg	aagacttacg	atgcatgtat	acaaacgaat	3600
agcagataat	gatgactagt	tcacacataa	agtcctttta	aggagaaaat	ctaaaatgaa	3660
aagtggataa	acagaacatt	tataagtgat	cagttaatgc	ctaaggatga	aagtagttct	3720
attgacattc	ctcaagatat	ttaatatcaa	ctgcattatg	tattatgtct	gcttaaatca	3780
tttaaaaaacg	gcaaagaatt	atatagacta	tgaggtagct	tgctgtgtag	gaggatgaaa	3840
ggggagttga	tagtctcata	aaactaattt	ggcttcaagt	ttcatgaatc	tgtaactaga	3900
atttaattttt	cacccaata	atgttctata	tagcctttgc	taaagagcaa	ctaataaatt	3960
aaacctattc	tttctgtgtg	tgtgagcgtg	cgtttgtgtt	tggtagtgtt	cctagggcag	4020
aggtggagca	gggatgcact	tatcatggga	agggaggtag	aaaagagaat	tggatagcct	4080
gtgatctttg	gtggaattta	ttccttttgc	ctaggccttt	cagaccctgc	ttgatttccg	4140
tagacacttc	aggttgtggc	aaggagagac	tggtctgcaa	tcggaagtac	cagcctcttc	4200
cctagagcac	aactagaaaag	aagaactata	gagtgttata	agggaggccc	tgagatggaa	4260
ggaccatcac	acagaaatga	taatatcttc	atttcagggt	gttccagggg	aaaagcagga	4320
gaaagatttg	gggctcagta	gaaggaaaaag	cttcctagt	gtaagagtga	ttggcaatac	4380
catgaggtac	ctttaaaaga	tagtgaactc	ctgtccttgg	aaatattaaa	ccacaggcta	4440
gatatcattt	aatagggatg	tgaagtagag	taagtcactg	cccttggtgt	gcaattgtga	4500
acttgtcaat	ttctgaggtc	cctttctact	tagatata	atacaagatt	tctattaggt	4560
atgggtgctc	tgatgataat	gaaaatccca	gcagctatgt	atgggatggg	tacaccagac	4620
actgtgctaa	ggattttctt	tgaattgttt	ctcactcaat	cttcacggta	gctcagttag	4680
gtaggtacca	ttatcatgcg	tagaaaagcag	tgaacttata	tggtcttact	gtggcactgg	4740
gtccttaaac	attatgcaaa	actgtgagca	acttttatcg	gtttgttctt	ttaagaacat	4800
aacacagcac	tctaaaaata	gatctaacta	gattgttcac	atctagcgat	taaggccacc	4860
ctgagattat	agctgcatca	tcaggaaacc	aagatctgaa	gcattcagtc	aaagcctctt	4920
ggccacctct	ctttttgtca	tggccttctt	ggacttggag	ggggagaatg	gaagcaagta	4980
ccaaggagaa	agtgttctca	gaaaagccac	acccattaga	aaaatacaag	gcctgaaagg	5040
tgtgagtggt	acttgacacg	gaagagcatt	tcaagcttaa	gaaaaaaa	aaaaagaaga	5100
atgtgggag	atgtcagcaa	caatgcttga	gattccctgg	tccccaaaag	agtctctcct	5160
ccataaaact	aatgagaatg	tgacaaaaat	agattcaact	tcttatagct	ctggaaatta	5220
actgaagatg	tatagcaatt	tgacagagcat	ttattcaaga	aaaagactaa	atctctgtga	5280
gcactgtgat	attgttaactt	gcactactct	catctcccc	tctccagctc	cacaatagct	5340
ttgaaaccaa	cagcctgcaa	ttacatgaa	aatcagcagt	ctggcagcca	ctgaagggtga	5400
cagaatggag	ttggagtctt	ttcaaaagtc	catttcctaga	caattgtcac	tatttgacct	5460
gtttggcagg	ccctggaagc	tccacttgca	aggtcatatt	tgacctgact	ggaagcttcc	5520
cagggtaaaa	aactttgtca	aaacaactag	aggcaattga	ttctctttgt	ggcctctgg	5580
ggtaatgtat	aacagttggg	gaaagcaatt	ggctaaataa	aaagcctaaa	aggagaagct	5640
ggaaaaagag	attttcatag	ggactttgaa	aagctccaaa	gtgttatttg	caatctagac	5700
tgccaaatgc	ataaatagga	ctccatccat	gcccaggact	gtgcagatgc	tcaggaaaaa	5760
cccaagaaa	ccttaagctc	tcacttcaag	ctgatcttga	ggctctgcac	aagccataag	5820
taaagggaat	gcagagtgtg	caattgcatg	gcggagtgtt	gagtgtgcct	cagcattcac	5880
acagagctcc	ttggcagaga	ctggttgat	tattgattcc	aagtgtttga	ggaaatccgt	5940
gtacaactat	tagatgacta	ctaaccaagc	agagacttca	gtgtccaca	acaacaaaaa	6000
atacagactt	tacagaatta	gttcagaaaa	gtcattaaac	aaagaaacaa	caacaaaccc	6060
tggggaaatg	acagtacgat	caaaccatgc	atggccctgc	ctgcatgtgg	gaatcctcat	6120
ccaagtcata	ctttctaaac	atcataaaaa	gcccataacca	gtctcctttc	ctggctctct	6180
caagtcattt	tcagaccagg	ttaggagacg	tgagctgtct	tccacaaaaa	gcctcatgtg	6240
agtaataaat	gtttcatact	ctcttggggg	gtgtgtaaca	tcactagctc	cagcatctaa	6300
accaaatttt	ggtgacattt	catcttgttt	atgcagatgt	ccaccacacc	tataaataaa	6360
caaactactg	aaactgattc	aagaaaaaat	aaaaatctga	atgagctat	cacaagtaaa	6420
gagattaaat	aagcaatcaa	ataacttccc	agaaagaaaa	gcccatttta	ggatgtctta	6480
actgattaat	gttagcaaat	atttaaagaa	gaattggtac	aaattcttca	caaactcttc	6540
cagaaatgga	agaggaggaa	acactttcca	ccttattttc	tataactagt	attaccttga	6600
taccaaattc	tgacaaatac	atcaaaaaata	aaaccataga	ccaatatctc	ttttaagtgt	6660
aaatgcaaaa	aaattcaaca	aaatgctaga	taactgggtc	caacaacata	tggaaaggat	6720
tatataccctt	gaccaagtgg	gatttgcccc	aggaatgcaa	gattgattta	accatcagtg	6780
taatgcatca	tattaataga	ataaagacag	aaaccacaa	atcatctcga	tacacgcaga	6840
aaaatcattt	ggcaaaattc	aacacccctt	tgtaataaaa	tcactcaaca	cactaggaag	6900
agaagggaac	ttcttcaacc	tcacacatgg	catctatgaa	aaaccacag	ctggccgggt	6960

atggtggctc	aagcctgtaa	tcccagcact	ttgggaggct	gagccaggcg	gatcacctga	7020
ggtcaggagt	tcgagaccaa	cctgaccaac	atggagaaac	cctgtatcta	ctaaaaatac	7080
aaaaaattag	cccggcgtgg	tggcaaatgc	ctgtaatccc	agctgcttgg	gaggctgagg	7140
caggagaatc	ggttgaaccc	aggaggtgga	ggttctggtg	agccgagatc	acgccattgt	7200
actccagcct	gggcaacaag	aacaaaactc	tgtctcaaaa	aaaaaaaaaa	aaagaaaaga	7260
aaaaccacaca	gctaacatca	tacttaaagg	tgaagactg	aaagctttcc	cccaagagga	7320
actaacagga	tatctgctgt	cactatTTTT	attcaatatt	atactggagg	ttctacctag	7380
ggtaattagg	caaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	a		4721

<210> 1984
 <211> 298
 <212> DNA
 <213> Homo sapiens

<400> 1984	
ttcttttttt	60
tcggctcact	120
gtagctggca	180
agatgggggt	240
cccactctggg	298

<210> 1985
 <211> 2371
 <212> DNA
 <213> Homo sapiens

<400> 1985	
tattttttatg	60
tttattctgt	120
tctctttctg	180
tttccacgtt	240
tggttgattcc	300
ctgcacccca	360
aagaaaagga	420
ctccacccct	480
cagtaaaagg	540
cggactcatt	600
ggtgtctaca	660
caaaagctaa	720
gatactctgc	780
ccctggttgt	840
aatgagaggg	900
cccactccc	960
aaaggcacac	1020
caaggccagg	1080
cagcagctcc	1140
gagctgggag	1200
cctcttcagc	1260
tgatcccagt	1320
tatggatcag	1380
attgggccct	1440
gagagggaca	1500
ggtgaagatc	1560
tgaaattccc	1620
ccacacacca	1680
atgtttcatc	1740
atgatggggg	1800

ggggggccagg	agagtctgtg	tggtcacaaa	cccttcatag	ctttttcccg	tcccctccac	1860
ttgaccatgt	gggatggcag	ggaatccaca	ccctcttgga	acatcccctg	ttttgctgat	1920
tgaaaagaga	tcctagaaac	agcactacat	ccaaggtgaa	ggaggggcca	gccagtctcc	1980
tctggatgcc	acctcagatg	ggttgccctca	agtttaaggt	ctcagccaca	tccataaaac	2040
tgttcccctc	tgtgaagcaa	cttctgccat	ggggagggg	agaaggatct	tctcaaagca	2100
agtccgacag	gcagagtctt	cactctccgg	ggtccggagt	gttctataga	catcgggaaa	2160
catacatcca	tctaaaaaga	caccctaata	aacctgcagc	tattcattgc	acccaagaaa	2220
ccagcctgtg	gcccacgcat	gcaggaataa	acacatattt	gctgagaacc	aaattgggtc	2280
taatgacct	ggcctgtctc	gcagggtcat	cctgagaaat	agctgatgtc	agacgacgag	2340
cgtgagcagc	tgttctccat	ttgcactcaa	c			2371

<210> 1986
 <211> 129
 <212> DNA
 <213> Homo sapiens

<400> 1986						
acgcctgtaa	tcccagcact	ttgggaggcc	gaggaggca	gatcacgagg	tcaggagttc	60
aagaccatcc	tggttaacat	ggtgaaaccc	tgtctctact	aaaaatacaa	aaaattagac	120
aggcgtggt						129

<210> 1987
 <211> 2236
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1996)..(1995)
 <223> n equals a,t,g, or c

<400> 1987						
tgcagggagc	tgagatcgcg	ccactgcatt	ccagcctggg	tgacagagtg	agactccatc	60
tcgaaaaaaa	aaaaaaaaag	aatctgaggt	ttaattcaag	gagcagtgga	agccattcat	120
tccaaattgt	caggatctat	gcaggtatg	ccctccctgt	cctctctgag	cttaggggtca	180
atgcctagaa	atgtatgtga	ttgctaatag	atttgctaca	tgccaggcac	tactctgagc	240
actttattcc	ttccttttcta	atgtgtgtgc	cttttatttc	ttttccgtgc	tttattgcat	300
tggtctagggc	ctccagtaca	gcactgaata	ggcatggtga	cagcacgcag	acatcccttc	360
cttgttcctg	atcttaggag	aaaaacattc	cacttcccac	tcccaccagg	aaggataaga	420
ttcgctgtag	ttttgggtgt	tattattatt	atttttttgg	tttgcttgag	acagagtctt	480
gctctgttac	ccaggctgga	gtgcagtggc	acaattttga	ctgactacaa	cctccacttc	540
tcaggttcaa	gcaatcctcc	tgctcagcc	tcccaggtat	ctgggactac	agtgtacacc	600
accacaccca	gctaattttt	gtatttttag	tagagacagg	gtttcaccat	gtttgccagt	660
ctggctcttga	actcctgacc	tcaagtgatc	tgcccgctc	ggcctcccaa	agtgtctggaa	720
ttacagggtgt	gagccactgt	gcctggccta	gttttggttg	gttttttgta	gattgtttt	780
atcaagttaa	gaaagtttcc	ttctagttct	agtttgccga	gagttttctt	ttttaaaatc	840
atgaatggat	gttgaatttt	atcaaatgct	tctacattta	ttgatatgat	aatatcattt	900
ttctctaata	actatacatt	tattttaagcc	tcccaacagt	cttatgaggt	agatactggg	960
ttcacaccaa	tttaaaaaaa	aaaaaaaaaa	aggggnnnnn	nnnnnnnnnn	nnnnnnnnnn	1020
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1080
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1140
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1200
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1260
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1320
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1380
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1440
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1500

nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	1560
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	1620
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	1680
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	1740
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	1800
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	1860
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	1920
nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	nnnnnnnnnnnn	1980
nnnnnnnnnnnn	nnnnnnacctg	agtacagaag	ttcaacaca	tcctggccaa	catggtgaaa	2040
cctgtctcta	ctaaaaatac	aaaaattagt	tgggcatggt	ggcatgtgcc	tgtaattcca	2100
gctactgggg	aagaggcagg	agaattgctt	gaatccaggga	gacggaaatt	gcagtgcgac	2160
cgagatcatg	ccactagcac	tccagcctgg	gtgacagagc	gagactctat	ctcaaaaaaa	2220
aaaaaaaaaa	acaagg					2236

<210> 1988
 <211> 1329
 <212> DNA
 <213> Homo sapiens

<400> 1988						
tttttttttt	ttaaaggata	ttcttagtag	actatatgtt	cacatgactc	gatattcaaa	60
tggtgcaaaa	gtcactccat	gagttatcta	gtgctccca	ttgaaggtaa	aaaatactac	120
cagttctttc	tggagatttt	atgcaaataa	aaagaaggga	cacttatgat	tctcttcctt	180
attactggtg	gagtatgggt	cactcctaata	gtaggatggg	atgattgccc	caagctctgt	240
cgtgagtggg	tgattgacgg	ttttcttaag	ggaacaatgc	tgggaaagat	gataggcgcc	300
cgccactgac	ccctcccgcc	tccttgcccc	tcagtaaac	tcccacacaa	aatagcagta	360
tgagggtggg	ggaaataatc	ttggcctccg	tcctgggttt	acttttgact	ctgccaccta	420
caagctgtca	cctgaacaag	tcctttccgt	tcctgtgtct	tccttggtca	caagctctaa	480
gcctgaaccc	acactctggg	aatgaagcag	ggtagcggcc	tctgcttcag	caactctgag	540
gggtctacct	tgggtgggga	gttggcctca	tccagagggc	tgctggaggg	ccaagacaag	600
gctctggtgg	ggaggtgtgc	tgagagggga	ttgcttatcc	caccaccagc	ttttctgggg	660
gaggtgggga	agtgatgggt	aaaaaatgga	gttcctgcta	tcagccatgt	cctgatgaat	720
tggaaagtcc	ccttctttct	cctttcctct	tgcatctcct	gcctgcttcc	cctgcctgcc	780
ctcctgtgac	atgtgccctc	tccagcaggt	atgtcacaca	gcaccccaag	ggaagggcag	840
tgtaacgctc	ttttccatga	tggaactacca	cagccagagg	aagacaggcc	ttcccttctt	900
ttctagttct	ttttggtttg	aaaæaaggc	actcttattt	tccccttcca	agaagctggt	960
ggttcacacg	ggccagcaca	cgcattatca	aagacctagt	ttgtttctag	taaatgagtc	1020
cattgaagtg	ggagccttgg	ccgggcaagg	tggtcacac	ctgtaatccc	agcactttgg	1080
gagggcgaga	tgggtggatt	gagatcgaga	ccatcctggt	caacatgggtg	aaactgtc	1140
tctactaaaa	atacaaaaat	tagctgggcg	tggtgacaca	cacctgtagt	cccagctact	1200
caggaggctg	aggcaggaga	atcgcttgaa	cctgggaggc	ggaggcaaca	gtgagccgag	1260
attgcgccac	tgcaactccag	cctgggcgac	agagtgcgac	tgtctctcca	aaaaaaaaaa	1320
aaaaaaaaaa						1329

<210> 1989
 <211> 115
 <212> DNA
 <213> Homo sapiens

<400> 1989						
gggcgacgtg	gctcacgcct	gtaatcccag	cacttttagga	ggccaagggtg	ggtggatcac	60
gaggtcagga	gatcgagacc	atcctggcca	acatggtgaa	accccatctc	tata	115

<210> 1990
 <211> 3502
 <212> DNA
 <213> Homo sapiens

<400> 1990

cccagctccc	tccccgggac	cctaagagca	ccccacccc	cacctactat	ggctccctgg	60
ccaggttctc	agccttatca	tctgctacac	ccacgtccac	ccaatgggcc	tgggattcag	120
ggcagggggc	caggctcccc	tccctctgtg	ctcaaacggg	ggacgacttc	ctgttggaga	180
agtggcgcaa	gtattttcca	tgtaaagccc	actctggggc	gagccttccc	acctgcctcc	240
tccctcctct	cttccttcc	tttcttctac	cctctttctc	ctgctccttt	tctcctcttc	300
ctcttttgca	tccctttgcc	acacctctcc	tcccccaacg	ttaccatagtc	catttgggtcc	360
attgactcta	cctgtgggtc	cctgggggaa	gagacattgc	agggtggccct	gcagccagga	420
gttctatggg	ttgggacggt	ttagatggag	cctggctgac	tggggccttt	attgtggatt	480
ctggagctca	gtagaacct	aaaggtcatt	gtcgtcatta	tcttaatagc	taccatcttg	540
tgcaatacat	gatgggcaa	gcagtttata	tatatTTTTT	catttagttc	ttaattctct	600
gaggtagtaa	ttatttatcc	ccattttaca	gatgaggaaa	ctgagtttca	gagagtttaa	660
gtagtatgct	ccagggtacc	cagtgtgtga	gtaacaaact	cagttgtgac	cccatgtctc	720
tgtgactcca	ggattctgct	tggaaacctct	tggctgtgtg	gctaattctt	gcttctgagc	780
caggtggcct	ccccaggctc	cagccctgct	gaggattatg	aaaagccata	aaacaaggca	840
tttgagggga	aacaaaatat	cttctttttg	ccctaaccce	aattgaaaag	tagattaagt	900
tttaaaaata	aaataaatag	gaccattcct	gtctctcacc	tgtctctggc	ctccagccac	960
tgaagctttt	cctttttattg	tttattcttg	ggaggcaaga	ggtgctgggt	ggcaggggtg	1020
tgaccactgc	ccatttctga	gtcctgtccc	catgctcttc	cagctggcat	cccgtgctc	1080
agcaacagcg	ccaccccgct	ggagagcagg	ctgggttaca	tgtctgccag	gtgagcctcc	1140
ctgggggctg	gttgggggtg	aacgtcatag	tcgagctgct	cactgtgcct	ccctgggcag	1200
gtggacctct	gaggggagca	gacctcctgg	tcttaccce	agaaatcagg	caggcctcta	1260
gtccacagag	ctgtccccgc	ttgcctgggt	ctgaggcgcc	cctccatgac	caggggaaag	1320
tcaagttcac	accgccaagg	tcccagtggt	gaagggtctg	gcttaccctg	ccaacccctt	1380
gaggaagctg	ccctctggcc	cctgtgggga	ggagtcagcc	cctggtggga	ccctgcccc	1440
gccccctccc	ctagcccttc	cagccccgga	gtctggcctt	tgtctttgcc	cttgagctct	1500
tgtttgcttc	ctgtggctcc	cttattcccc	cagtcctgct	gagcaacatc	tggagtgaga	1560
ggacaccctt	gtggaggaga	cagacgggca	attatttaa	cctgttatta	attttccatt	1620
catctcattc	cttgccaaat	gttttccctt	ctccctccct	taggcagcta	acagttagta	1680
ccccccacta	accctttggc	caacttgaga	gctgatgctg	gccaaggatt	gagttgacag	1740
aggggagcgc	tttgctgatg	agattggcgg	gagcaggcgg	atgtgggagc	ccagagcctt	1800
gtatcagtag	caccagcaa	gggggcagag	ggcctccacc	actttcccgt	ttgggaactg	1860
ttctggaggg	gcagatgttt	tgaagctttg	aattgttagg	gacctcggag	aagctgctct	1920
ggtagctgag	agaaagaggg	aggaggtgag	agatgtgatg	gcctctgtgc	atcctctgtc	1980
acttccgcgc	ctcctctctc	ccctcgcc	gctctcctct	tccctcccag	tgagcagctc	2040
cggctcctac	agcactccca	ttcgcaagtc	cctgaggcgg	gcagcaccac	ctttcagggc	2100
ataattgagg	ccaaccggag	gtggctggaa	cgtgtcaaga	atgaccccag	gttgtatcct	2160
tttacctggg	tcccaaactg	ggctgggctg	tggggactgt	gcttgtgccc	tgaggggctg	2220
aggaggatcc	tgttcagcct	ttgacccttt	catggccctt	gcctggctat	gcccagcgac	2280
tgcagttttc	cttcaccttg	tggccagacc	tctcttctct	tcaacaccca	agccaaaagc	2340
tactttgagc	ctcctgcagc	tgggccttga	tgagcacaac	agagtgaagg	tgtatcgctt	2400
ctgaggccct	gagcaggggc	ttgggcagc	ccagcctctc	ctccaccag	accaagtgcc	2460
tgaggagctg	cctgccttct	tccatctgag	aaagcacctg	ccttccccct	ttgacttgca	2520
ggagccacca	gggaccaggg	ggttgagtgg	aacagtaaag	ccacacattc	tgtgactata	2580
taacctatct	caggctaaaa	tgtgtggact	cgtacgagct	cttgtcattg	acaaggcaag	2640
ctgatggcgt	goggtggctg	cggggtatca	gggcccggag	ccctttggga	ggaagggagg	2700
cgttagagga	gctgccttcg	gaggtccagg	gagtcctttt	ggagctgggt	gtttccttgg	2760
ccctgcagcg	cactgctcgg	ggctcccaag	gaggttgtgt	gtatggttct	taattcatca	2820
ggacaaaagc	ccccagc	tgtgtaccct	gggaccggat	ttctctgggc	ccacatctat	2880
ctccaatacc	tcagcctcag	atcagaccct	ttcttttttg	tctttcttct	cttaattttt	2940
aaatgcctct	tttcttgagc	attccatctc	tctttttgac	cctctcagga	ttgggcttag	3000
ctgtccagag	ccctgccgga	gggtgctggg	ggctgtccct	ctgcaggca	tgtgttttcc	3060
tcaggggctg	tctcagaaac	acccctcctg	ctccctgggg	ctcctcaggg	agccatttca	3120
gctggagctc	caggtctcaa	aaacagcttc	tccgggaggc	caaaaaaaga	ctgggttggc	3180
ttctggctct	catgacggct	tttatccctc	tgggacactt	tgggtatatt	catgggcatt	3240
gtttccatct	gtcttttcta	cctgtgccac	ccctgccctg	attccacggc	tgccctcaggc	3300

aggcaggcaa	ggagctaggc	cggtgcccg	ccctggcagc	aaggggtctt	tgtgcagttg	3360
gagatgctgc	cgttgtggca	gagcgtcctg	cagccccgct	tccatcagca	ggctctgggg	3420
tgggggcttt	gcaggggatg	ctctctgatg	tttgttccgt	tgtaaata	aaatgcactt	3480
atTTTTgttt	TTTTTTTTgc	aa				3502

<210> 1991
 <211> 2649
 <212> DNA
 <213> Homo sapiens

<400> 1991						
ctttaggta	ctcattgagg	tttattgtgt	aagatgaatg	aatgttgcaa	attcctaaac	60
atgtgattca	gatgcccaat	cttactctgt	tactttatga	aaatttttta	aagctatatg	120
atgttatatc	aaaatatgtt	gttatacttt	aggataatcg	gtgtgttagc	cctgaatttc	180
agcataagtc	ccattttttt	ccatgggagt	ctaggaaagc	tatatgttta	ttcagcagca	240
aaatacagtt	tggaacttaa	ataaactatt	gatcaatttct	tggtcttatg	ctagaaggaa	300
taaagcatca	agaaaaagaa	aagatttgct	gtcaagacca	ggaaaatttg	acaatagagt	360
attagaatgc	aggaaatgag	gggaagtgga	aaggcagcaa	gtaggagaga	aaaagtgcag	420
ggacagtaga	aagtgaatgt	aggagctttc	tgacctatgc	acttcaggaa	cgcaattcat	480
ccctaaaatg	ctgtttgctg	tcttaggttg	caagtaacca	aattaaaacc	agtttgaaag	540
tagagtgaga	cagctgtcat	cataagagtc	atttgatctg	tttaaagggtg	gctgcttgta	600
tgcagggacc	aacagtcatg	ttcagggcag	cagctgggtg	acacttcaag	cacagaccat	660
aagagctacc	ccaggcagca	cctgctacca	atagtcacaa	caactcagag	agacctcggt	720
ggcataaggg	aatactctat	cctttctgag	taaagagcaa	gtagaactaa	aggtttcaca	780
ttttaaacat	actttacatt	cctcctcttc	tggggctcaa	gcctactttt	gggccaaaagc	840
ggatgttata	tctgacatag	agtcctcgga	gcagcagttg	ttcctgaaag	ttcctttttg	900
catctttgtg	cctcatgcat	tggcttacaa	gtcaaccaga	cttctcccct	gacttttgat	960
gtgtaagagc	ttgtgtttca	aatgggtttg	gttttcttaa	tgtcacccca	ggttggtgga	1020
aaggagagta	aatggaaatg	gggggagcag	ggtcccctgg	ggaggtttta	acagatggaa	1080
gtcaattgtc	tcttgagaat	agaggaggct	attgagtttt	cattccacac	tctgctcctg	1140
ttctgtcagc	aaagaacaag	cactactctc	cagcaattgc	tttccactgg	actccccac	1200
ctcggcctcc	ctacaaaaac	ctagggatca	acttagttca	ctccaaatta	gaaaatttaa	1260
tagtcatttg	tttcttcttg	tccacaggga	gaaccatttt	cttctcctct	ttcaaaattg	1320
cccaggctct	gtgaagggtt	attaacaccg	gaaagaaata	catttttaata	agcttaaatc	1380
tcattttctac	atgaaaccat	cagatttttag	tactgtgata	ttttgggtccc	tctgtctttt	1440
aggctctgac	accaaaattg	ccataatgaa	ggtgtttcac	ttcttctcat	ttatttttat	1500
gggatctttt	attcccaaat	gccttttcat	cccagccaaa	gggagaaatg	ttgatagatc	1560
tgccatcaag	aaggttccaa	agctggcctg	tcaggttttc	tgttttcttg	tttattatct	1620
ttgaactttt	gttttaaatg	ttttaaacac	ttatttacca	tgtaactaaa	tgtctgatag	1680
tattgaaaat	actttgtggg	ttttaattta	tttaatgctc	atgaaaccct	atgagttagg	1740
tactgatatt	atTTTTatTT	tactgatgag	gaaagtgaag	caaagagaag	tgaaatgaaa	1800
ggtagttagt	gatgggacca	gggtttggac	atgggcagtc	tggtctctaaa	atgtatgctt	1860
ttactacta	tgtaatgctg	cctcacaaac	aacttgtctc	acaaattgat	attctggatc	1920
agaggatgtc	gactggcccg	caaatgtatt	ttgtatggct	catacacagt	tcagaagttt	1980
taaaaattta	catagaaatc	tgcatttctc	gacttctttt	gaaaatggga	ataccaaaca	2040
tcattaggct	tgaattccca	atacggcaac	aacagctgag	caacaagcag	ctgttttagac	2100
taggcactcg	ctctccaatt	tccacagtcc	ccaccaatgc	agatcatagtat	cgacttaa	2160
atttcctgcc	tgcccttagag	aagcttctga	gcttgtgacc	tctattctag	ctgctctatg	2220
aatggacgct	gccccagtac	agcgaggacc	tgctgcaaaa	tgcatttctt	agtccttcaat	2280
acttattcct	ccttgtaact	ggatttctgg	taagttatgt	ctcatgggtg	atctgccccca	2340
aagatggaga	ctgaatggca	gtgagtcact	cgccctggcc	tccattgttc	tgagagaagg	2400
tccagccaca	tggttgatgt	cagctggttt	tccagagcca	gagctgggtt	gcgggacaga	2460
cacacctgca	tctaatagtg	aaaggcaaat	ttgaaaggcc	aagaccagcc	tgaggtctga	2520
gggaccaagg	gcttcacaga	ggccagaagt	tcagaggtgg	acaaaaagg	tgtaggaga	2580
ataaggaagt	gaaaagaaca	tagtacagtg	tatcagagga	ggagctccag	gctggcaaat	2640
atcactccc						2649

<210> 1992
 <211> 2649
 <212> DNA
 <213> Homo sapiens

<400> 1992

cttgtaggta	ctcattgagg	tttattgtgt	aagatgaatg	aatgttgcaa	attcctaaac	60
atgtgattca	gatgcccaat	cttactctgt	tactttatga	aaatttttta	aagctatatg	120
atgttatatc	aaaatatgtt	gttatacttt	aggataatcg	gtgtgttagc	cctgaatttc	180
agcataagtc	ccattttttt	ccatgggagt	ctaggaaagc	atatgttta	ttcagcagca	240
aaatacagtt	tggaacttaa	ataaactatt	gatcaatttc	tggctcttatg	ctagaaggaa	300
taaagcatca	agaaaaagaa	aagatttgct	gtcaagacca	ggaaaatttg	acaatagagt	360
attagaatgc	aggaaatgag	gggaagtgga	aaggcagcaa	gtaggagaga	aaaagtgcag	420
ggacagtaga	aagtgaatgt	aggagctttc	tgacctatgc	acttcaggaa	cgcaattcat	480
ccctaaaatg	ctgtttgctg	tcttaggttg	caagtaacca	aattaaaacc	agtttgaaag	540
tagagtgaga	cagctgtcat	cataagagtc	atttgatctg	tttaaagggtg	gctgcttgta	600
tgcagggacc	aacagtcattg	ttcagggcag	cagctgtgc	acacttcaag	cacagaccat	660
aagagctacc	ccaggcagca	cctgctacca	atagtgcata	caactcagag	agacctcgtt	720
ggcataaggg	aatactctat	cctttctgag	taaagagcaa	gtagaactaa	aggtttcaca	780
ttttaaacat	actttacatt	ctcctctctc	tggggctcaa	gcctactttt	gggcaaagc	840
ggatgttata	tctgacatag	agtcctcgga	gcagcagttg	ttcctgaaag	ttcctttttg	900
catctttgtg	cctcatgcag	tggcttataa	gtcaaccaga	cttctcccct	gacttttgat	960
gtgtaagagc	ttgtgtttca	aatgggtttg	gttttcttaa	tgtcacccta	ggttggtgga	1020
aaggagagta	aatggaaatg	gggggagcag	gggtcccctgg	ggagggttaa	acagatggaa	1080
gtcaattgtc	tcttgagaat	agaggaggct	attgagtttt	cattccacac	tctgtcctcg	1140
ttctgtcagc	aaagaacaag	cactactctc	cagcaattgc	tttccactgg	actccccac	1200
ctcggcctcc	ctacaaaaac	ctagggatca	acttagttca	ctccaaatta	gaaaatttaa	1260
tagtcatttg	tttcttcttg	tccacaggga	gaaccatttt	cttctcttct	ttcaaaattg	1320
cccagggtctt	gtgaagggtt	attaacaccg	gaaagaaata	cattttaata	agcttaaata	1380
tcattttctac	atgaaaccat	cagatttttag	tactgtgata	ttttgggtccc	tctgtctttt	1440
aggctctgac	acaaaaattg	ccataatgaa	ggtgtttcac	ttcttctcat	ttatttttat	1500
gggatctttt	attcccaaat	gccttttcat	cccagccaaa	gggagaaatg	ttgatagatc	1560
tgccatcaag	aagggttcaa	agctggcctg	tcaggttttc	tgttttcttg	tttattattc	1620
ttgaactttt	gttttaaatg	ttttaaacac	ttattttacca	tgtaactaaa	tgtctatag	1680
tattgaaaat	actttgtggg	ttttaattta	tttaatgctc	atgaaaccct	atgaggtagg	1740
tactgatatt	attttttatt	tactgatgag	gaaagtgaag	caaagagaag	tgaaatgaaa	1800
ggtagtgaat	gatgggacca	gggtttggac	atgggcagtc	tggctctaaa	atgtatgctt	1860
ttactacta	tgtaatgctg	cctcacaac	aacttgtctc	acaaattgat	attctggatc	1920
agaggatgtc	gactggcccc	caaattgtatt	ttgtatggct	catacacagt	tcagaagttt	1980
taaaaattta	catagaaatc	tgcatttcct	gacttctttt	gaaaatggga	ataccaaaaca	2040
tcatttaggt	tgaattccca	atacggcaac	aacagctgag	caacaagcagct	gttttagac	2100
taggcactcg	ctctccaatt	tccacagtcc	ccaccaatgc	agatcatagt	atcgacttaa	2160
atttctctgc	tgctttagag	aagcttctga	gcttgtgacc	tctattctag	ctgctctatg	2220
aatggacgct	gccccagtac	agcgaggacc	tgtctcaaaa	tgcatttctt	agtcttcaat	2280
acttattcct	ccttgtaact	ggattttctg	taagttatgt	ctcatgggtg	atctgcccc	2340
aagatggaga	ctgaatggca	gtgagtcact	cgccctggcc	tccattgttc	tggagaaggt	2400
tccagccaca	tggttgatgt	cagctgggtt	tccagagcca	gagctgggtt	gcgggacaga	2460
cacacctgca	tctaataagt	aaaggcaaag	ttgaaaggcc	aagacagcc	tgaggtctga	2520
gggaccaagg	gcttcacaga	ggccagaagt	tcagaggtgg	acataaaaagg	tgtaggaga	2580
ataaggaagt	gaaaagaaca	tagtacagtg	tatcagagga	ggagctccag	gctggcaaat	2640
atcactccc						2649

<210> 1993
 <211> 190
 <212> DNA
 <213> Homo sapiens

<400> 1993
atgagaaagt aaacatacaa cacagtaaaa gttgttccaa gtatttaaaa atgttctata 60
tcttctacct tattatggct caagatatag taacttttgt ggggttttat cattgttttt 120
gttttatttt gtgaaaacat ccaagagccc gcaacagcct atgatttgc agatcctttt 180
ctttcctggg 190

<210> 1994
<211> 190
<212> DNA
<213> Homo sapiens

<400> 1994
atgagaaagt aaacatacaa cacagtaaaa gttgttccaa gtatttaaaa atgttctata 60
tcttctacct tattatggct caagatatag taacttttgt ggggttttat cattgttttt 120
gttttatttt gtgaaaacat ccaagagccc gcaacagcct atagatttgc agatcctttt 180
ctttcctggg 190

<210> 1995
<211> 13077
<212> DNA
<213> Homo sapiens

<400> 1995
atccccatttg aagtgggtgga gaaagttttac ccaccagtgc ctgagcagct acagctccga 60
attgcttttt ggagcttccc tgagaatgaa gaggacattc ggtgaggcca aaggactgat 120
ggtggggagc ggggtcctga tactccacac tgtctgctgg gtttcccata gaacaaagga 180
gacattgtat ttggggcagt ggtaagagga agacaaggga gggattgcct gggattccac 240
tccctccccc ccaccccccg ccttggggaa ggaatgaggc tagggagaga gtgcctaggg 300
cattgtggtc tctgacaggg tctgccaaag gttatttgcct gagttgtggc tgtgtcctct 360
tcttcacccc caggctgtat tctgtcctgg ccaatggag tgcggatgag tttcagcgag 420
gggatcagct cttccgcatg cgggctgtga aggacccatt gcagataggt gagtgggcca 480
tcatgccatg tggcacatcc tgctcctccc atccccctggc ttatgaagta agaacacacc 540
gcaagaagct ggagcatggt gtctgaataa ctgcagggcc agggcacaag gcagagacc 600
aggtcctgac agcactccct gacctgccc ccatttctcc ccagggttcc acctgagtgc 660
tacagtgggt ccacctcaga tgggtccctcc taaaggggcc tacaacgtgg ctgtgatgtt 720
tgaccgctgc cgggtcactt cctgcagctg tacctgtggg gctggggcca aatgggtgcac 780
ccacgtcgtg gcactctgtc tcttcgcat cacaacgtg agggccctccc aatttatccc 840
ggccctatcc tacactccat ccccccttc tctgtctcat gcctggctac aatgtgagcc 900
ccctgcctc gcctactctg cctctctgtc cccagctcc agctccagca aacctgttct 960
cagattgttc catttttctc tgtgtccctc tcaggcttct gcagtctgcc tgcgagcccc 1020
agtctcagag tccctgtccc ggctacagag ggaccagctg caaaagtgtg ctacgtacct 1080
catcagttag ctccctcagc aggtgggtga ggtcggcacc cctcctgca attagctccg 1140
ggccaggccg cataacagcc ttcctgttag gccaggcct ccattgggtc acctaggccg 1200
tgttctgcct gcctccgtct ctttctcct cagatcctcc ccacagctca gctctcctg 1260
gacgaactcc tgtcttccca gtcaacagcc atcaatacag tgtgtggagc tccgggtgag 1320
tgtgggtgaga aagattggca gtaggaagaa agccagcttg tagtacagag cgccatttac 1380
tcaaggcttg ctgttgtcag gcaaattccag gccctatct ctagatgact gactgcctt 1440
catcctcaga cccacagca gggccctcag catcggacca gagtacttgg tatctggatg 1500
aatcgacact cactgacaac atcaaaaaga cactgcacaa gttctgtggc cctcccttg 1560
tgggtcttcag gtaaatcgga tctctgcata cctgtgtctg tgggtggagg ggagcgtccc 1620
tcaggctgat gacagatcct ttcttctatt catgcctgtg acccctacct tttattccct 1680
gaactggcac agtgcctggc acacagttgt cactaacgaa ttgatggaag atgatgacct 1740
tgtacagtca cagagtgggtc tgctcttacc tagcaagagt tccttttctt cttttgatag 1800
atcaggaaat ggaaacagag aaagattttt taaagatttt ttgtggctgg ggcgggtggc 1860
tcatacctat aatcccagca ttttgggagg ctgacgtggg cagatcacct gagatcagga 1920
gttcgagacc agcctggcca acatggcgaa tctccatctc tactaaaaaa acaaaaatta 1980
gccaggcgtg gtggcggggcg cctgtaatct cagctacttg ggaggctgag gcaggagaat 2040

tgcttgaacc	cgaggagtgg	aggttgacgt	gaggtgagat	cgcgccattg	caactcaagcc	2100
tgggcgacag	agcaagactt	ggtctcaaaa	aaaaaaattt	tgttacagat	gtctttttcc	2160
ctctatcttc	tgtattttgg	ggccggaagc	ccttttaggt	ttcattcagc	cccgctttac	2220
tgtcatggtt	ttctgttcc	ctgcttttac	agtgatgtga	actccaagta	tctgtcttcc	2280
acggagccgc	cagccgctgc	tgaatgggca	tgtctgtgc	gccctctgag	gggccgtgag	2340
ccagaggcg	tctggaacct	gctaagcatt	gtgcgggaga	tgttcaagcg	gagggacagc	2400
aatgctgccc	ccttgttggga	aatcctcact	gaccagtgcc	tcacctatga	acaggtaatc	2460
actcagcggt	ggggagcccc	gtggtagctc	attctttccc	tccccctgcc	tcacctcctc	2520
cttgctgaaa	tggactctgg	gagggctact	ctgcctttct	ctgagctctc	aggtgcagct	2580
cacagccttc	tttgtctcca	gataacaggt	tggtggtata	gcgtacgtac	ctcagcctca	2640
cacagcagtg	ccagtgggca	cacgggcccgt	agcaacgggc	gtcagaggt	ggcagccccat	2700
gcctgtgcca	gcatgtgtga	cgagatggtc	acactgtgga	ggctggccgt	gctggaccct	2760
gctcagacc	cccagcggtg	agtctcccct	gaggtccacc	acagaactga	gcctgggcca	2820
gctcaggaca	gactgagcct	tcactctcct	gtttgcagag	acataccatg	atttttagtcc	2880
tcgggaaacg	ggaggtgctg	agcactgggtg	ttagcagtga	tttacgagtc	ctttttctga	2940
gaggttttca	tccttccctc	ccctaaataa	caccactttt	tcaaaattct	ccagtgtttc	3000
agtgatgctt	atggggctgg	gtcaagaagt	actttcctgt	atcctttccc	catgcctctc	3060
tttgggggtg	acacctactc	catgcccato	ctttccagct	agccccctcag	cagcctcctg	3120
ccccttgttc	ccacaggcgc	cgggaaactgt	gtacgcagct	gcggcagtg	caactgaagg	3180
tgattgagaa	cgtcaagcgg	ggccaacaca	agaagacgct	ggagcggctc	ttccccggct	3240
tccggccagc	ggtggaggcc	tgctacttca	actgggaaga	ggcctaccca	cttccctggtg	3300
tcacctacag	cggcactgac	aggaagctgg	cactgtgctg	ggccccgggc	ctgcccctctc	3360
ggccaggtgc	ctcccgcctc	gggggcctgg	aggaatccc	ggaccggccc	cgaccccctc	3420
ctactgagcc	agctgtgcgg	cccaaggagc	ctgggaccaa	gcgaaagggc	ttgggtgagg	3480
gggtccccctc	atcacagcgg	ggtccccgcc	gcctctcagc	tgaaggggga	gataaagctc	3540
tacataagat	gggtccaggt	gggggcaaa	ccaaggcact	gggtggggct	ggcagtgggga	3600
gcaagggctc	agcaggtggc	ggaagcaagc	gacggctgag	cagcgaagac	agctcccctg	3660
agccagacct	ggccgagatg	agcctggatg	acagcagcct	ggccctgggc	gcagaggcca	3720
gcaccttcgg	gggattccct	gagagccctc	caccctgtcc	tctccacggg	ggctcccag	3780
gcccttccac	tttcccttcc	gagccccccag	atacttatga	agaagatggg	ggtgtgtact	3840
tctcggaagg	gcctgagcct	cccacagcct	ctgttgggcc	ccctggccta	ctgcctgggg	3900
atgtctgtac	ccaggacgac	ctcccttcta	cagatgagag	tggcaatggg	cttcccaaaa	3960
ccaaagaggc	agccccctgca	gttggagagg	aggatgatga	ctaccaggcg	tactatctga	4020
atgcccagga	tggggctggg	ggcgaggaag	agaaggccga	gggcggggct	ggggagaggc	4080
acgacctgtt	tgtctgggctg	aagccactgg	acagcagag	tcgcatggag	gtgagggat	4140
ggaaggagg	agggctgggt	gctccttagc	cacaactggg	aggggctatc	tagctctagt	4200
tgggagtgtc	aggaccatca	gcaggattgt	gagaaccctg	ttgcaggcgc	cgaactggtc	4260
tccttgcttt	cagtctactc	acttttctgc	ttccacgaga	ttttcctgaa	atgtgatggg	4320
gtcactctgc	tgtctaaaac	ccttcaatgg	gttctgtttg	cccttatgat	aaaatgaaag	4380
tgggttggcat	gacctgtgag	ggtccacttg	atctgggtctt	tgcttgcctt	gccagcctca	4440
cttggtgtgt	ctgtcctttg	cactccagtc	agctgaatca	ctcatgtatc	tgccatgctc	4500
tctctcttgc	ctccaggatt	ttggacagat	tgacctttct	gcctggaatg	ctcttcccca	4560
ttagcccgtg	tttctccttc	aggtctcagg	gatcttaaa	atcacttcc	ctaggaggatc	4620
tctctgatac	tgtccctgtg	ccccaaagata	tcccacctgc	ttccccctga	cctttccctg	4680
taatagctgg	catcacgggtg	gcatgtgtgt	ttatgtgtct	gtctttctaa	ccagagctcc	4740
tatggagcgg	cacaggccct	ggcatgtagc	aagtgttcaa	ggaatgttgg	ctgcatgagt	4800
gagcatgatg	tcctgtctct	ggaagtggg	actttaacct	gtctggtccc	atgtcctcct	4860
tccagggtact	gtttgcctgt	gctgaggccc	tgcatgcgca	tggctatagc	agtgaggcct	4920
cccgtctcac	tgtggagctt	gcccaggatc	tgctagccaa	cccaccgac	ctcaaggtag	4980
agccgcccc	tgccaagggtg	agagaccccc	ttcctctacc	ttccccctcc	ccacttacc	5040
ccaacctgct	cccattgcccc	accccaagt	agagcatcct	tctacctcca	ccaaggtaag	5100
tcagaatcat	ctgcctgtct	cctgtgtttc	ttccctttct	agggcaagaa	gaacaaggta	5160
tccacgagcc	gtcagacctg	ggtggctacc	aacaccctga	gcaaggcggc	cttccctgtg	5220
acagtgtctaa	gtgagcgtcc	agagcaccac	aacctggcct	tccgagttgg	catgtttgcc	5280
ttggagctac	agaggcctcc	agcttctacc	aaggccttgg	aggtcagagg	ctccatctca	5340
gccttgtatt	tcagtctctt	tagagccttg	caccttgatc	tctattgaca	caccagaggt	5400
ctgagctcct	tcctgtgccc	tcaggtgaag	ctggcatacc	aggagtctga	ggtggctgcc	5460

ctgctcaaga	agatccctct	gggtccaagt	gagatgagta	ccatgcggtg	ccgggcagag	5520
gaacttcggg	aggggacact	ctgtgactat	cggcctgtgt	tgcctctcat	gctggccagt	5580
ttcatctttg	acgttctctg	tgctccaggt	atgatgcctg	accctacagt	aagtggggaa	5640
ctggggtagg	ggtagctttc	tctaagaaag	accaagagcc	ccaagtttct	gaatcacctt	5700
taggacccat	caggcagctt	catgggttag	tctgtgatga	tgaggatttt	gggttccctt	5760
gtattttttc	ccatgcatga	tacttctgtc	tgcctgactt	accccaactt	ttatacagtg	5820
gtttctccca	caggttcccg	gcccccaagt	cgcaactgga	acagcgagac	acctggggat	5880
gaggagcttg	gatttgaagc	agcagttgct	gccttggttg	agtcttgagc	atatcaacga	5940
gctaagcctg	gttcaggtct	tgaaggacat	gagacctgtg	ccttggtgtg	aagggctgta	6000
tggtaatggg	aaggtcagga	tgacatgtgt	gagccaacta	gtgcctgtaa	gacaggaatt	6060
cagggcaaaa	atgtgtgcta	tatggctggg	cgtgggtggc	catgcttgta	atcgcagcg	6120
tttgggaggg	tgaagcagga	ggattgtttg	agctcaggag	ttcatgacca	gcctgggcaa	6180
cctagcaaga	cctcatcttt	acttaaaaa	aaaaaaaaa	aaaaaaaaa	aattagccag	6240
gtgtgggtgg	acatgccttg	tgctgccagc	tactccagag	gctgaagtgg	gagaattgct	6300
ttagcctgga	gattgaggct	gcagtgaact	gtgattgcac	cactgccctc	tagcctgggc	6360
aacagagtga	aaccttgtct	caaacaaaga	aaaaaaaaa	tgtgtgctat	gggtattggg	6420
tattgtaaag	gcagcaaaac	aaaaatctag	agaaaggcct	aagggaagtg	gtagaatatg	6480
gaatgtgggt	taaaagatca	gtaggtccta	aaccagcgaa	caccatgagt	aaatacacaa	6540
cgcaatcaag	ttttcatgag	aatgaggagg	ccagcttccc	taaaatgata	agtacatgct	6600
gggttaagcag	attggacctg	gttatgaagg	ttttgaaaag	cacaccagag	cttaggctgg	6660
atataatagt	caacgaagac	ttctataggt	gatgtgggtt	ggaccaaggg	aacccttac	6720
ttcatatgct	gatggcttgg	gaaccctggc	ctcttacctt	tgctgtcttg	ggaattatga	6780
ctactctcaa	tcccataag	gtcctctttc	tgcgaggcat	gaagacaaca	gtggcgagg	6840
cagaacatcc	cctcttatgt	gaaggcacac	gtcgggagaa	gggtgacctg	gcattagcac	6900
taatgatcac	ttacaaggac	gaccaggcca	agcttaagaa	ggtaaagagac	tggggctggg	6960
tgcgggtggct	catgcctgta	atcccagcac	tttgggaggc	agaggcgggc	agatggcttg	7020
agcccaggag	tttgagacaa	gcctggggcaa	catggcgaaa	ccccgtctct	acaaaaaat	7080
acaaaaaatt	agcagctggg	tggtgggtgca	catgcctgta	gtcccagcta	ctcgggaggc	7140
tgagggtggga	ggattgcttg	aaccagtag	gcagagggtg	caatgagctg	ggttcacgcc	7200
actgcactcc	agcctgggtg	acagagcaag	accctgtttc	aaaaaaaaa	aaaaaaaaa	7260
aaggcaaggt	actggggcct	ttgacaggca	gagaaaagaga	gcacatttta	ctacctttct	7320
cagggagttt	ccagtacaat	gagaaaagtg	ctatttttagg	ctgggtgcag	tggctcatgc	7380
ctgtaatctc	agcacttttg	gaagcagagg	cgggaggatc	gtttgagacc	aacctggcca	7440
acatagttag	acctgtctc	tacaaaaaat	tagaaaaata	gccgggcatg	gtggcgcgcg	7500
cctgtagtcc	ggaggtctcg	ggaggtctag	gtggagaat	tgcttgagcc	caggagtgtg	7560
aggctacagt	gagctataat	cataccactg	cactccagcc	tgggcaacag	agcgagaccc	7620
tgtctcttaa	aaaaaaaaaga	agaagaagaa	aaaaagaaaa	gtgtcttct	gcccatagga	7680
ggtaagttag	gaatcttggg	gacatctcat	aaagaataag	agaagaccaa	tggttcttat	7740
aggagtgcct	gggcatgggg	tggagaagaa	gaagcagagg	gcataaagtc	attcattcac	7800
ttattttcagt	atattattgac	tatcagtata	ttctgccttg	tggtgttaat	ggaggatacc	7860
aagatatgtt	ggggttaaat	aagttacaaa	aagacatgta	aaccaggagg	tcatcctgtg	7920
gttgtaagtg	gggaaggctc	cctgaggatg	tagcaattgg	ctgtttcaag	gagaaaggaa	7980
ggtaatatgaa	gtcaggagct	aaagggcata	ctgtcactgc	ttctctggag	gtcactgctt	8040
ctgtcttcca	gatcttagac	aaactcttgg	accgagagg	ccagacacat	aagccacaga	8100
cgctgagttc	tttctactca	tctagccgcc	caaccacagc	cagccagagg	tctccttcaa	8160
agcacggggg	cccatctgcc	ccaggggccc	tgcaaccact	gacctcaggc	tctgcagggc	8220
ctgctcaacc	agggagtgtg	gcaggggctg	ggccaggccc	cactgagggc	ttcacagaga	8280
agaatgtgcc	tggtgaggtg	ggggcactgg	gcagggggga	tgaatggtgt	ggacctatgt	8340
tgaggtcccc	tttctctggc	tcatcccagc	gtcctgtttt	cctcacctag	agagttcccc	8400
acattcccc	tgtgagggtc	ttccatctga	ggcagctttg	accccaaggc	cagaagggaa	8460
ggttcctagc	cgcttggcac	ttggcagtcg	tggaggctat	aatggacggg	gatgggggtc	8520
cccaggacgg	cctaagaaga	agcacacagg	taggatagcc	tgtgggctag	catagaggga	8580
aggataatcc	tgaaggttgg	agtcttaaca	tctgggactc	ctgacttctg	agactgactt	8640
ctcttggggg	ttaggcatgg	ccagcattga	cagcagtgcc	cctgaaacaa	catcggatag	8700
ttccccacc	ttaagccgga	gaccacttcg	agggggctgg	gccccacct	cctggggctg	8760
aggtcaggac	agtgcagca	ttagcagctc	ttcttcggac	tccttgggct	cctcatcctc	8820
cagtggaagt	cgccggggcca	gtgccagtgg	aggagcccg	gcgaagactg	ttgaagtgg	8880

caggtcagtg	ggaagaactc	cccatcttcc	ctgatctggc	ccaccctcag	agccacaccc	8940
ctagtgaat	ccaaccattg	tctcccagca	tcctcacttt	ccctggctct	tcccaaccta	9000
cccggatgcc	catttcaaag	aaaccccaac	ccccgtccct	acccatttgc	cccttcaggt	9060
acaagggccg	ccgccccgag	agtcattgcc	ctcatgtacc	caatcagcca	tcagaggag	9120
ctgcacactt	ctacttcgag	ctggcgaaga	cagtgtgat	caaggcaggg	ggcaacagca	9180
gcacttccat	tttcacacat	ccatcttctt	cagggggcca	ccagggtcct	caccgcaacc	9240
tgcacctttg	cgccttcgag	attgggcttt	atgcccttgg	cctgcacaac	tttgtttctc	9300
ccaactggct	ctcacgtact	tattcttccc	acgtttcctg	gattacaggt	aaatcatttg	9360
acctgacttg	ggtatgggag	ggggattaat	tgggtgggat	aagaccctta	tctttgtggg	9420
gttactgac	tgataaaaaag	acattattct	cacaccccag	tggtgcccac	actaacccaa	9480
ctctgccctt	ctctcctttc	ccctaaggcc	aggccattga	gataggcagc	gagccctga	9540
ctatactggt	agaatgctgg	gatgggcacc	tgacaccccc	tgagggttgc	tccctggctg	9600
acagggcatc	acgggcaaga	gactccaata	tgggtagggg	ggcagcagag	ctggccctga	9660
gctgccctgc	tcacgcccac	gcattgaacc	ctaagtatat	ccagcggggc	ctgggtgcagt	9720
gcaaggaaca	ggtatttcta	cgggcaatct	gggaacctct	tctggggcat	ctgggcaggg	9780
aggttgaggc	tgggaaagct	aaggggccag	ctcttgattc	ccgtatcctg	gagtttacag	9840
atgattgttg	gtcctctcat	ggcaacattt	tacccattaa	tgtgctttca	cacccatctt	9900
tcctttacct	tacaactcaa	aggtttaggt	tatttctatt	ttacaghaa	ggaaatggag	9960
gcctacgggt	tagggacca	gatgatcact	caggatagaa	aacttaggga	aggcctcata	10020
catctaagac	ttgaattggg	gggggctggt	aaattagttt	ggaactggga	ctataacctg	10080
ggtcttgact	cattttggtc	agtatttact	cagtgtgtga	agcactcact	gctctgataa	10140
tggactctaa	gcattgacac	tgacctctga	tgattccctg	ggaatgagac	agctctgagg	10200
gagacatttg	aatctcatct	aacaccttcc	atgtggtaaa	ggcctttccc	ccttaacact	10260
ctgtgcccct	ctcttccagg	acaacctgat	gttgagaga	gcctgcatgg	cagtgggaaga	10320
ggcagctaag	ggtggggggc	tgtaccctga	agtgttgttt	gggttgctc	accagtgggt	10380
ctggctgtat	gagcaaaact	cagggtggctc	atccacagcc	cgtgaagggg	ctacaagctg	10440
tagtgccagt	gggatcaggg	cagggtggga	agctggggcg	ggtatgcctg	agggttagagg	10500
gggcccaggg	actgagccgg	ttacagtggc	agcggcagca	gtgacagcag	cagccacagt	10560
ggtgcccgtc	atatcggtgg	ggtctagttt	ataccggggt	ccaggactgg	ggcatggcca	10620
ctccccctgg	ctgcacccct	acactgctct	acagccccac	ctgccctgta	gccctcagta	10680
tctcactcac	ccagctcacc	ctgcccaccc	catgcctcac	atgccccggc	ctgccgtctt	10740
ccctgtgccc	agctctgcat	acccacaggt	gagacagtg	ttctgctggg	gggtaaggca	10800
tgggaaaata	ctgggaattc	ataggggggt	ggagtgggta	ctctgggagt	ataattggtc	10860
agtcggagag	tcctggtgag	gtggtgggag	tctgggggag	ccagcccaac	taaaataaga	10920
aatgacggcc	gggcatggtg	gctcatgcct	gtaatcccag	cactttgaga	ggccgatgtg	10980
ggtggatcac	ttgaggtcag	gagttcgaga	ccagcctggc	caacatgggg	aaaccccgtc	11040
tctactaaaa	attagctgag	tgcacgcctg	taatcccagc	ttcttgggag	gctgagatgg	11100
gaatcacttg	aacctgggag	gcagaggttg	cagtgagccg	atatcgtgcc	actgcactcc	11160
agcctggagg	acagagcgag	actctatctc	aaaaaaaaa	tgtcaggata	gcagcttgtg	11220
ggggtgaagc	acgacagcaa	cataccta	aagtttggca	tcttcccctt	tcttctccct	11280
gcccctaggg	tgtgcatcct	gcatttctag	gggctcagta	cccttattca	gtgactcctc	11340
cctcacttgc	tgccactgct	gtgtctttcc	ccgttcttcc	catggcaccc	atcacagtac	11400
atccctacca	cacagagcca	gggcttccac	tgcccaccag	tgtggcctgt	gagttgtggg	11460
gccagggaac	aggtgaatgg	aggggaggca	cactgggcag	gggaggtggg	gagggaatgt	11520
tctttgtctc	tctttgggct	ctgagttcct	cacatggctc	tcacccact	tagtgagcag	11580
tgtccatcca	gcattccacgt	ttccagccat	caaagtgcc	tactgcctg	ccctgaccac	11640
acagcccagc	cctctggtga	gcggaggttt	tccaccgccc	gaggaggaga	cacacagtca	11700
gccagtcaat	ccccacagcc	tgcaccacct	gcattgctgc	taccgtgtcg	gtgagaggac	11760
atccctttct	gtgctcctac	ctgcagttgt	gccagtggct	cttgacagag	accctctc	11820
tagctcttca	tttgtttact	gtggggctcag	gtgacagggt	ggggtaaagg	gtgaagagga	11880
tacaccgtac	catgtgccca	cccttatcta	tctcccagga	atgctggcac	tggagatgct	11940
gggtcgccgg	gcacacaacg	atcaccccaa	caacttctcc	cgtccccccc	cctacactga	12000
tgatgtcaaa	tggttgctgg	ggctggcagc	aaagctgggt	aacacctccc	ctccctagga	12060
ccattgcccc	ccccccacct	gctctcccca	ccttccttat	cccagacctc	cttccctagct	12120
cttgctcaga	gttgaggcct	tggctgggta	tgtgtgcctg	cgcggggggc	ggagggttac	12180
ctcagctcct	gggggtggagg	gaggtctctc	gccaggccag	agctgagatct	gtaagttgg	12240
gtccctaggg	cagaggtggc	cacccccgtc	tcatgcccct	ccccctgccc	cccaggagtg	12300

aactacgtgc	accagttctg	tgtgggggca	gccaaagggg	tgctgagccc	gtttgtgctg	12360
caggagatcg	tcatggagac	gctgcagcgg	ctgagtgccc	ctcatgccc	caaccacctg	12420
cgtgccccgg	ccttcacca	actggtgcag	cgctgccagc	aggcatacat	gcaggtgaca	12480
acctagaatt	atggagcagg	gtggagcact	tctgggtgg	tcttgagcca	gagggaggca	12540
gggcctgttt	ctgtgctttg	tactaaggct	catcctgcac	acatcctcct	ccagtacatc	12600
caccaccgct	tgattcacct	gactcctgcg	gactacgacg	acttgtgaa	tgcgatccgg	12660
agtgcgccga	gcgccttctg	cctgacgccc	atgggcatga	tgagttcaa	cgacatccta	12720
cagaacctca	agcgcagcaa	acagaccaag	gagctgtggc	agcgggtctc	actcgagatg	12780
gccaccttct	ccccctgagt	ctttcacccct	taggggtccta	tacagggacc	caggcctgtg	12840
gctatggggg	cccctcacac	agggggagtg	aaacttggct	ggacagatca	tcctcactca	12900
gttccttggg	agcacagact	gacagctgct	cttgggctat	agcttggggc	caagatgtct	12960
cacaccctag	aagcctaggg	ctgggggaga	cagccctgtc	tgggaggggg	cgttgggtgg	13020
cctctggtat	ttatttggca	tttataaata	tataaaactc	cttttttactc	tagtcga	13077

<210> 1996

<211> 13076

<212> DNA

<213> Homo sapiens

<400> 1996

atcccatattg	aagtgggtgga	gaaagtttac	ccaccagtgc	ctgagcagct	acagctccga	60
attgcttttt	ggagcttccc	tgagaatgaa	gaggacattc	ggtgaggcca	aaggactgat	120
ggtggggagc	ggggctctga	tactccacac	tgtctgctgg	gtttcccata	gaacaaagga	180
gacattgtat	ttggggcagt	ggtaagagga	agacaagggg	gggattgcct	gggattccac	240
tccctccccc	ccaccccccg	ccctggggaa	ggaatgaggc	tagggagaga	gtgcctaggg	300
catttgtggtc	tctgacaggg	tctgccaaag	gttatgtct	gagttgtggc	tgtgtcctct	360
tcttcacccc	caggctgtat	tctgacctgg	ccaatggcag	tgccgatgag	tttcagcgag	420
gggatcagct	cttcgcgatg	cgggctgtga	aggaccatt	gcagataggt	gagtgggcca	480
tcatgccatg	tggcacatcc	tgtcctcccc	atcccctggc	ttatgaagta	agaacacacc	540
gcaagaagct	ggagcatggt	gtctgaataa	ctgcagggcc	agggtaagga	gcagagaccc	600
aggtcctgac	agcactccct	gaccatgccc	ccatttctcc	ccaggggtcc	acctgagtgc	660
tacagtgggtg	ccacctcaga	tggtccctcc	taaagggggc	tacaacgtgg	ctgtgatgtt	720
tgaccgctgc	cgggtcactt	cctgcagctg	tacctgtggg	gctggggcca	aatgggtgcac	780
ccacgtcgtg	gcactctgtc	tcttccgcct	ccacaacgtg	aggccctccc	aatttatccc	840
ggccctatcc	tactactcat	cccccccttc	tctgctgcat	gcctggctac	aatgtgagcc	900
ccctgccttc	gcctactctg	cctctctgtc	ccccagctcc	agctccagca	aacctgttct	960
cagattgttc	cattttttctc	tgtgtccctt	tcaggcttct	gcagtctgcc	tgcgagcccc	1020
agtctcagag	tcctgttccc	ggctacagag	ggaccagctg	caaaagtttg	ctcagtaact	1080
catcagttag	ctccctcagc	aggtgggtga	ggtcggcacc	ccctcctgca	attagctccg	1140
ggccaggccg	cataacagcc	ttcctgttag	gcccaggcct	ccatgggttc	acctaggccg	1200
tgttctgctt	gcctccgtct	ctttctccct	cagatcctcc	ccacagctca	gcgtctcctg	1260
gacgaactcc	tgtcttccca	gtcaacagcc	atcaatacag	tgtgtggagc	tccgggtgag	1320
tgtggtgaga	aagattggca	gtaggaagaa	agccagcttg	tagtacagag	cgccattac	1380
tcaaggcttg	ctgttgtcag	gcaaattccag	gcccctatct	ctagatgact	gactgcctgt	1440
cactctcaga	ccccacagca	gggccctcag	catcggacca	gagtacttgg	tatctggatg	1500
aatcgacact	cactgacaac	atcaaaaaga	cactgcacaa	gttctgtggc	ccctcccctg	1560
tggtcttcag	gtaaatcgga	tctctgcata	cctgtgtctg	tggtggaggg	ggagcgtccc	1620
tcaggctgat	gacagatcct	ttcttctatt	catgctctgt	acccctacct	tttattccct	1680
gaactggcac	agtgcctggc	acacagttgt	cactaacgaa	ttgatggaag	atgatgacct	1740
tgtacagtca	cagagtgggtc	tgtctttacc	tagcaagagt	tccttttctt	cttttgatag	1800
atcaggaaat	ggaaacagag	aaagattttt	taaagagttt	ttgtggctgg	ggcggtgggc	1860
tcatacctat	aatcccagca	ttttggggag	ctgacgtggg	cagatcacct	gagatcagga	1920
gttcgagacc	agcctggcca	acatggcgaa	tctccatctc	tactaaaaaa	acaaaaatta	1980
gccaggcggtg	gtggggggcg	cctgtaatat	cagctacttg	ggaggtgag	gcaggagaat	2040
tgcttgaacc	cgggaggttg	aggttgacgt	gaggtgagat	cgcgccattg	cactcaagcc	2100
tgggcgacag	agcaagactt	ggtctcaaaa	aaaaaaattt	tgttacagat	gtctttttcc	2160
ctctatcttc	tgtatttttg	ggccggaagc	ccttttaggt	ttcatcagc	cccgtcttac	2220

tgatcatggtt	ttctgttcc	ctgcttttac	agtgatgtga	actccatgta	tctgtcttcc	2280
acggagccgc	cagccgctgc	tgaatgggca	tgtctgctgc	gccctctgag	gggccgtgag	2340
ccagagggcg	tctggaacct	gctaagcatt	gtgcgggaga	tgttcaagcg	gagggacagc	2400
aatgctgccc	ccttggttga	aatcctcact	gaccagtgcc	tcacctatga	acaggtaatc	2460
actcagcggt	ggggagcccc	gtggtagctc	attctttccc	tccccctgcc	tcatcctcct	2520
cttgctgaaa	tggaactctg	gagggctact	ctgcctttct	ctgagctctc	aggtgcagct	2580
cacagccttc	tttgtctcca	gataacaggt	tggtaggtata	gcgtacgtac	ctcagcctca	2640
cacagcagtg	ccagtgggca	cacgggccgt	agcaacgggc	agtcagaggt	ggcagcccat	2700
gcctgtgcca	gcatgtgtga	cgagatggtc	acactgtgga	ggctggccgt	gctggaccct	2760
gcactcagcc	cccagcggtg	agtctcccc	gaggtcacc	acagaactga	gcctggggcca	2820
gctcaggaca	gactgagcct	tcatctcctt	gtttgcagag	acataccatg	attttagtcc	2880
tggggaacg	ggaggtgctg	agcactgggt	ttagcagtga	tttacgagtc	cttttctgta	2940
gaggttttca	tccttccttc	ccctaaataa	caccactttt	tcaaaattct	ccagtgtttc	3000
agtgatgctt	atggggctgg	gtcaagaagt	acttcctgt	atcctttccc	catgcctctc	3060
tttgggggtg	acacctactc	catgccatc	ctttcccagt	agcccctcag	cagcctcctg	3120
ccccttggtc	ccacaggcgc	cggaactgt	gtacgcagct	gcggcagtg	caactgaagg	3180
tgattgagaa	cgtaagcgg	ggccaacaca	agaagacgct	ggagcggctc	ttccccggct	3240
tccggccagc	ggtggaggcc	tgctacttca	actgggaaga	ggcctacca	cttctggtg	3300
tcacctacag	cggcactgac	aggaagctgg	cactgtgctg	ggcccgggcc	ctgcctctc	3360
ggccagggtgc	ctcccgcctc	gggggcctgg	aggaattccg	ggaccggccc	cgacccttc	3420
ctactgagcc	agctgtgcgg	cccaaggag	ctgggaccaa	gcgaaagggc	ttgggtgagg	3480
gggtccctc	atcacagcgg	ggtccccgcc	gcctctcagc	tgaaggggga	gataaagctc	3540
tacataagat	gggtccaggt	gggggcaaag	ccaaggcact	gggtggggct	ggcagtggga	3600
gcaagggtc	agcagggtgg	ggaagcaagc	gacggctgag	cagcgaagac	agctccctgg	3660
agccagacct	ggccgagatg	agcctggatg	acagcagcct	ggccctgggc	gcagaggcca	3720
gcaccttcgg	gggattccct	gagagccctc	caccctgtcc	tctccacggt	ggctcccag	3780
gcccttccag	tttcttccct	gagccccag	atacttatga	agaagatggt	ggtgtgtact	3840
tctcggaagg	gcctgagcct	ccacagcct	ctgttgcccc	ccctggccta	ctgcctgggg	3900
atgtctgtac	ccaggacgac	ctcccttcta	cagatgagag	tggcaatggg	cttcccaaaa	3960
ccaaagaggc	agcccctgca	gttgagagag	aggatgatga	ctaccaggcg	tactatctga	4020
atgcccagga	tggggctggg	ggcgaggaag	agaaggccga	gggcggggct	gggggggagc	4080
acgacctgtt	tgctgggctg	aagccactgg	aacaggagag	tcgcatggag	gtgaggggat	4140
ggaaggaggg	agggtgggt	gctccttagc	cacaactggg	aggggctatc	tagctctagt	4200
tgggagtgtc	aggaccatca	gcaggattgt	gagaaccctg	ttgcaggcgc	cgaactggtc	4260
tccctgcttt	cagtctatc	acttttctgc	ttccacgaga	ttttcctgaa	atgtgatggt	4320
gtcactctgc	tgcttaaaac	ccttcaatgg	gttctgtgtg	cccttatgat	aaaatgaaag	4380
tggttggcat	gacctgtgag	ggtccacttg	atctggtctt	tgctgtcttt	gccagcctca	4440
cttggtgctg	ctgtcctttg	cactccagtc	agctgaatca	ctcatgta	tgccatgctc	4500
tctctcttgc	ctccaggatt	ttggacagat	tgacctttct	gcctggaatg	ctcttcccca	4560
ttagcccgtg	tttctccttc	aggtctcagg	gatcttaaa	atcacttcc	ctagggagtc	4620
tctctgatac	tgtccctgtg	ccccaaagata	tccacctgc	ttccccttga	cctttccctg	4680
taatagctgg	catcacgggtg	gcatgtgtgt	ttagtgtct	gtctttctaa	ccagagctcc	4740
tatggagcgg	cacaggccct	ggcatgtagc	aagtgttcaa	ggaatgttgg	ctgcatgagt	4800
gagcatgatg	tcctgtcct	ggaagtggg	actttaacct	gtctgggtccc	atgtcctcct	4860
tccaggtact	gtttgcctgt	gctgaggccc	tgcatgcgca	tggtagatgc	agtgaggcct	4920
ccgctctcac	tgtggagctt	gcccaggatc	tgtagccaa	cccaccgac	ctcaaggtag	4980
agccgcccc	tgccaagggtg	agagaccccc	ttcctctacc	ttcccctccc	ccacttacct	5040
ccaacctgct	cccatgcccc	accccaagtg	agagcatcct	tctacctcca	ccaaggtaag	5100
tcagaatcat	ctgcctgtct	cctgtgtttc	ttccccttct	agggcaagaa	gaacaaggta	5160
tccacgagcc	gtgagcctg	ggtggctacc	aacaccctga	gcaaggcggc	cttctgttgg	5220
acagtgcata	gtgagcgtcc	agagcaccac	aacctggcct	tccgagttgg	catgtttgcc	5280
ttggagctac	agaggcctcc	agcttctacc	aaggcctgg	aggtcagagg	ctccatctca	5340
gccttgattt	tcagtctctt	tagagccttg	caccttgatc	tctattgaca	caccagaggt	5400
ctgagctcct	tcctgtgccc	tcaggtgaag	ctggcatacc	aggagtctga	ggtggctgcc	5460
ctgctcaaga	agatccctct	gggtccaagt	gagatgagta	ccatgcgggtg	ccgggcagag	5520
gaacttcggg	aggggacact	ctgtgactat	cggcctgtgt	tgctctcat	gctggccagt	5580
ttcatctttg	acgttctctg	tgctccaggt	atgatgcctg	accctacagt	aagtggggaa	5640

ctggggtagg	ggtagctttc	tctaagaaag	accaagagcc	ccaagtttct	gaatcacctt	5700
taggacccat	caggcagctt	catgggtagg	tgtgatga	tgaggatttt	gggttcccc	5760
gtattttttc	ccatgcatga	tacttctgtc	tgctgactt	accccaactt	ttatacagt	5820
gtttctccca	caggttccc	gcccccaagt	cgcaactgga	acagcgagac	acctggggat	5880
gaggagcttg	gatttgaagc	agcagttgct	gccttgggtg	agtcttgagc	atatcaacga	5940
gctaagcctg	gttcaggctt	tgaaggacat	gagacctgtg	ccttggtgtg	aagggctgta	6000
tggtaatggg	aaggtcagga	tgacatgtgt	gagccaacta	gtgcctgtaa	gacaggaatt	6060
cagggcaaaa	atgtgtgcta	tatggctggg	cgtgggtggc	catgcttgta	atcgagcgc	6120
tttgggaggc	tgaagcagga	ggattgtttg	agctcaggag	ttcatgacca	gcctgggcaa	6180
cctagcaaga	cctcatctct	acttaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aattagccag	6240
gtgtgggtgg	acatgccttg	tgctgccagc	tactccagag	gctgaagtgg	gagaattgct	6300
ttagcctgga	gattgaggct	gcagtgaact	gtgattgcac	cactgccctc	tagcctggc	6360
aacagagtga	aaccttgtct	caaacaaaga	aaaaaaaaat	tgtgtgctat	gggtattggg	6420
tattgtaagg	gcagcaaaac	aaaaatctag	agaaaggcct	aaggggaagt	gtagaatatg	6480
gaatgtgggt	taaaagatca	gtaggtccta	aaccagcgaa	caccatgagt	aaatacacaa	6540
cgcaatcaag	ttttcatgag	atgaggagg	ccagcttccc	taaaatgata	agtacatgct	6600
gggtaagcag	attggacctg	gttatgaagg	ttttgaaaag	cacaccagag	cttaggctgg	6660
atataatagt	caacgaagac	ttctataggt	gatgtgggtt	ggaccaaggg	aaccctttac	6720
ttcatatgct	gatggcttgg	gaaccctggc	ctcttacctt	tgctgtcttg	gattatga	6780
ctactctcaa	tccccataag	gtcctctttc	tcgcaggcat	gaagacaaca	gtgagcgagg	6840
cagaacatcc	cctcttatgt	gaaggcacac	gtcgggagaa	gggtgacctg	gcattagcac	6900
taatgatcac	ttacaaggac	gaccaggcca	agcttaagaa	ggtaagagac	tggggctggg	6960
tgcggtggct	catgctgta	atcccagcag	tttgggaggc	agaggcgggc	agatggcttg	7020
agcccaggag	tttgagacaa	gcctgggcaa	catggcgaaa	ccccgtctct	acaaaaaat	7080
acaaaaaatt	agcagctggg	tgtgggtggc	catgcctgta	gtcccagcta	ctcgggaggc	7140
tgaggtggga	ggattgcttg	aaccagtag	gcagaggttg	caatgagtg	ggttcacgcc	7200
actgcactcc	agcctgggtg	acagagcaag	accctgtttc	aaaaaaaaaa	aaaaaaaaaa	7260
aaggcaaggt	actggggcct	ttgacaggca	gagaaagaga	gcacatttta	ctacctttct	7320
cagggagttt	ccagtacaat	gagaaaagtg	ctatttttagg	ctgggtgcag	tggctcatgc	7380
ctgtaatctc	agcacttttg	gaagcagagg	cgggaggatc	gtttgagacc	aacctggcca	7440
acatagttag	accctgtctc	tacaaaaaat	tagaaaatta	gccgggcatg	gtggcgcgcg	7500
cctgtagtcc	cagctactcg	ggaggctgag	gtggggagaa	tgcttgagcc	caggagtttg	7560
aggctacagt	gagctataat	cataccactg	cactccagcc	tggaacacag	agcgagaccc	7620
tgtctcttaa	aaaaaaaaaga	agaagaagaa	aaaaagaaaa	gtgctcttct	gcccatagga	7680
ggtaagttag	gaatccttggg	gacatctcat	aaagaataag	agaagaccaa	tggttcttat	7740
aggagtgcct	gggcatggg	tggaagaaga	gaagcagagg	gcataaagtc	attcattcac	7800
ttatttcagt	atttattgac	tatcagtata	ttctgccctg	tgggtgtaat	ggaggatacc	7860
aagatatgtt	ggggttaaat	aagttacaaa	aagacatgta	aaccaggagg	tcatcctgtg	7920
gttgtaagt	gggaaggctc	cctgaggatg	tagcaattgg	ctgtttcaag	gagaaaggaa	7980
ggtaatagaa	gtcaggagct	aaagggcata	ctgtcattgc	ttctctggag	gtcactgctt	8040
ctgtcttcca	gatcttagac	aaactcttgg	accgagagag	ccagacacat	aagccacaga	8100
cgctgagttc	tttctactca	tctagccgcc	caaccacagc	cagccagagg	tctccttcaa	8160
agcacggggg	cccattctgc	ccagggggcc	tgcaaccact	gacctcaggc	tctgcagggc	8220
ctgctcaacc	agggagtgtg	gcaggggctg	ggccaggccc	cactgagggc	ttcacagaga	8280
agaatgtgcc	tgggtagggtg	ggggcactgg	gcagggggga	tgaatgggtg	ggacctatgt	8340
tgaggtcccc	tttcttgggc	tcatcccagc	gtcctgtttt	cctcacctag	agagttcccc	8400
acattccccc	tgtgagggtc	ttccatctga	ggcagctttg	accccaaggc	cagaagggaa	8460
ggttccttag	cgcttggcac	ttggcagtcg	tggaggctat	aatggacggg	gatgggggtc	8520
cccaggacgg	cctaagaaga	agcacacagc	taggatagcc	tgtgggctag	catagaggga	8580
aggataatcc	tgaagggttg	agtcttaaca	ctgggactc	ctgacttctg	agactgactt	8640
ctcttggggg	ttaggcatgg	ccagcattga	cagcagtgcc	cctgaaacaa	catcggatag	8700
ttccccacc	ttaagccgga	gaccacttcg	agggggctgg	gccccacct	cctggggctg	8760
aggtcaggac	agtgcacgca	ttagcagctc	ttcttcggac	tccttgggct	cctcatcctc	8820
cagtggaagt	cgccgggcca	gtgcagtgg	aggagcccg	gcgaagactg	ttgaagtgg	8880
caggtcagtg	ggaagaactc	cccattcttc	ctgatctggc	ccacctcag	agccacaccc	8940
ctagtgaat	ccaaccattg	tctcccagca	tctcactttt	ccctggtcct	tcccaaccta	9000
cccggatgcc	catttcaaag	aaaccccaac	ccccgtccct	acccattgc	cccttgggt	9060

acaagggccg	ccgccccgag	agtcattgccc	ctcatgtacc	caatcagcca	tcagaggcag	9120
ctgcacactt	ctacttcgag	ctggcgaaga	cagtgtgat	caaggcaggg	ggcaacagca	9180
gcactttcat	tttcacacat	ccatcttcct	cagggggcca	ccagggtcct	caccgcaacc	9240
tgcacctttg	cgccttcgag	attgggcttt	atgcccttgg	cctgcacaac	tttgtttctc	9300
ccaactggct	ctcacgtact	tattcttccc	acgtttcctg	gattacaggt	aatcattttg	9360
acctgacttg	ggtatgggag	ggggattaat	tggtggggat	aagaccctta	tctttgtggg	9420
gttactgatc	tgataaaaag	acattattct	cacaccccag	tggtgcccac	actaaccxaa	9480
ctctgccctt	ctctcctttc	ccctaaggcc	aggccatgga	gataggcagc	gcagccctga	9540
ctatactggg	agaatgctgg	gatgggcacc	tgacaccccc	tgaggttgca	tccctggctg	9600
acagggcac	acgggcaaga	gactccaata	tggtgagggc	ggcagcagag	ctggccctga	9660
gctgcctgcc	tcacgcccat	gcattgaacc	ctaattgagat	ccagcggggc	ctgggtgcag	9720
gcaaggaaca	ggtatttcta	cgggcaatct	gggaacctct	tctggggcat	ctgggcaggg	9780
agggtgggca	tggaagagct	aaggggccag	ctcttgattc	ccgtatcctg	gagtttacag	9840
atgattgttg	gtcctctcat	ggcaacattt	tacccattaa	tgtgtttca	cacctctctt	9900
tcctttacct	tacaactcaa	aggttagggt	tatttctatt	ttacagataa	ggaaatggag	9960
gcctacgggt	tagggaccaa	gatgatcact	caggatagaa	aacttaggga	aggcctcata	10020
catctaagac	ttgaatggga	gggggctgtt	aaattagttt	ggaactggga	ctataacctg	10080
ggtcttgact	cattttggtc	agtatttact	cagtgtgtga	agcactcact	gctctgataa	10140
tggactctaa	gcattgacac	tgacctctga	tgattccctg	ggaatgagac	agctctgagg	10200
gagacattgg	aatctcatct	aacaccttcc	atgtggtaaa	ggcctttccc	ccttaacact	10260
ctgtgcccct	ctcttccagg	acaacctgat	gttgagagaag	gcctgcatgg	cagtgggaaga	10320
ggcagctaag	ggtgggggag	tgtacctga	agtgttgttt	gagggtgtct	accagtgggt	10380
ctggctgtat	gagcaaaactg	cagggtggctc	atccacagcc	cgtgaagggg	ctacaagctg	10440
tagtgccagt	gggatcaggg	cagggtgggga	agctggggcg	ggtatgcctg	agggtagagg	10500
gggcccaggg	actgagccgg	ttacagtggc	agcggcagca	gtgacagcag	cagccacagt	10560
ggtgcccgtc	atatcggtgg	ggtctagtgt	ataccggggt	ccaggactgg	ggcatggcca	10620
ctcccctggc	ctgcacccct	acactgctct	acagcccac	ctgccctgta	gccctcagta	10680
tctcactcac	ccagctcacc	ctgcccaccc	catgctcac	atgccccggc	ctgccgtctt	10740
ccctgtgccc	agctctgcat	acccacaggt	gagaccagtg	ttctgctggg	gggtaaggca	10800
tgggaaaata	ctgggaattc	ataggggggt	ggagtgggta	ctctgggagt	ataattgggt	10860
agtcggagag	tcttggtgag	gtggtgggag	tctgggggac	ccagcccaac	taaaataaga	10920
aatgacggcc	gggcatgggt	gctcatgcct	gtaatccag	cactttgaga	ggccgatgtg	10980
ggtggatcac	ttgaggtcag	gagttcgaga	ccagcctggc	caacatgggg	aaacccgctc	11040
tctactaaaa	attagctgag	tgacgcctg	taatcccagc	ttcttgggag	gctgagatgg	11100
gaatcacttg	aacctgggag	gcagaggtg	cagtgagccg	atatcgtgcc	actgcactcc	11160
agcctggagg	acagagcgag	actctatctc	aaaaaaaaca	tgtcaggata	gcagcttgtg	11220
ggggtgaagc	acgacagcaa	catcctaata	aagtttgga	tcttcccctt	tcttctccct	11280
gcccctaggg	tgtgcatcct	gcattcctag	gggtcagta	cccttattca	gtgactcctc	11340
cctcacttgc	tgccactgct	gtgtctttcc	ccgttccttc	catggcaccc	atcacagtac	11400
atccctacca	cacagagcca	gggtctccac	tgcccaccag	tgtggcctgt	gagttgtggg	11460
gccaggaac	aggtgaatgg	aggggaggca	cactgggcag	gggaggtggg	gaggaatgt	11520
tctttgtctc	tctttgggct	ctggttcct	cactggctc	tcaccccact	tagtgagcag	11580
tgtccatcca	gcattccagt	ttccagccat	ccaaggtgcc	tactgcctg	ccctgaccac	11640
acagcccagc	cctctggtga	gctggaggtt	tccaccgccc	gaggaggaga	cacacagtca	11700
gccagtcaat	ccccacagcc	tgaccacct	gcatgctgcc	taccgtgtcg	gtggaggac	11760
atccctttct	gtgctcctac	ctgcagttgt	gccagtggct	cttcagagga	cccttcctct	11820
agctcttcat	ttgtttactg	tggggtcagg	tgacaggttg	gggtaaaggg	tgaagaggat	11880
acaccgtacc	atgtgcccac	ccttatctat	ctcccaggaa	tgctggcact	ggagatgctg	11940
ggtcgccggg	cacacaaaga	tcacccaac	aacttctccc	gctccccccc	ctacactgat	12000
gatgtcaaat	ggttgctggg	gctggcagca	aagctgggta	acacctcccc	tccctaggac	12060
cattgcccc	ccccacctg	ctctccccac	cttcttatac	ccagacctcc	ttcctagctc	12120
ttgctcagag	ttgaggcctt	ggtcgggtat	gtgtgcgtgc	gcggggggg	gagggttacc	12180
tcagctcctg	gggtggaggg	aggctctctg	ccaggccaga	gctgagatct	gtaagttggg	12240
tccctagggc	agaggtggcc	accccgctct	catgcccctc	cccctgcccc	ccaggagtga	12300
actacgtgca	ccagttctgt	gtgggggcag	ccaagggggt	gctgagcccc	tttgtgctgc	12360
aggagatcgt	catggagacg	ctgcagcggc	tgagtcctgc	tcagtcacac	aaccacctgc	12420
gtgccccggc	cttcacacaa	ctggtgcagc	gctgccagca	ggcatacatg	caggtgacaa	12480

cctagaatta	tggagcaggg	tggagcactt	cctgggtggt	cttggaccag	agggaggcag	12540
ggcctgtttc	tgtgctttgt	actaaggctc	atcctgcaca	catctcctc	cagtacatcc	12600
accaccgctt	gattcacctg	actcctgcgg	actacgacga	ctttgtgaat	gcgatccgga	12660
gtgcccgcag	cgcccttctgc	ctgacgcccc	tgggcatgat	gcagttcaac	gacatcctac	12720
agaacctcaa	gcgcagcaaa	cagaccaagg	agctgtggca	gcgggtctca	ctcgagatgg	12780
ccacctttctc	cccctgagtc	tttcaccctt	agggtcctat	acagggaccc	aggcctgtgg	12840
ctatgggggc	ccctcacaca	gggggagtg	aacttggctg	gacagatcat	cctcactcag	12900
ttccctggta	gcacagactg	acagctgctc	ttgggctata	gcttggggcc	aagatgtctc	12960
acaccctaga	agcctagggc	tgggggagac	agccctgctt	gggagggggc	gttgggtggc	13020
ctctggtatt	tatttggcat	ttataaatat	ataaactcct	tttttactct	agtcga	13076

<210> 1997
 <211> 207
 <212> DNA
 <213> Homo sapiens

<400> 1997						
ccttgagtgg	taactttatc	ttagtccagg	tgattccagt	tgcagcagta	gctaggtgcc	60
ctgcgataac	tctctcccct	tgagggtttc	cagtgtggga	agttgtcatt	taggcgcgcc	120
aaaagtggct	tggccctctg	tgcttcttga	gatcccttcc	gggctctggt	ctatcttgtc	180
tccttagctg	ggggcctaca	gtcatct				207

<210> 1998
 <211> 2124
 <212> DNA
 <213> Homo sapiens

<400> 1998						
aaacagaaaa	ataaggatgt	ttattaagga	catttctagc	ccacagctag	ggctcatact	60
cggctctatg	agccactgtc	cgacctcatc	cccattcaat	gtgaatgaca	ttagggaggc	120
cgggccacag	gtagatccca	ctgcctggct	aaaggggcca	tagcaagggg	tccctcccat	180
gcaagggggtc	tctcccatag	ccaggtatag	aatagataca	ctgctgcgga	tgaagaggga	240
aatctcattg	gactaataca	ttcccctaca	ccttgccctg	accctctcat	tcctccccac	300
ctcccaagat	gatgggtcaa	aggtacctag	cactattatg	tggggtagca	aaggaaagcc	360
ctttatttgt	cccagaactg	tgggaaaagg	atcccttcc	cttctcagcc	atctcaggcc	420
tggggggtac	tgaggtagag	ggggaggggc	caggccactc	taatccccct	tgtggggcct	480
gctctggacc	tgccccttag	ggaagcaggg	ggcattttgc	tggtatggga	ggctgggaca	540
tcagcccaga	ctggaatgct	gcagttcttc	ccgaagccac	gagggcactg	gctgtccaag	600
ccggctcagc	agcttcgaca	actccaaatt	atggttccgg	aaaaaatccg	taaggaaaag	660
acgggactga	caggagaaaa	tgaaggcaga	aatggtaaga	agtgggacac	agaatcagat	720
cctggaagtg	gagagggatt	cccctgcccc	tggctttact	tacctcagtg	tccatatctg	780
gatacctccg	gcctttgctc	cggcctaag	agcgagtctt	accaccttca	agtcacctgc	840
accaaaaatcc	cttatcatca	tcaaacctgc	tcaacaggaa	gaggccatga	ggtggcaggg	900
aaaagagaaa	ctcaagttcc	ataaatgcac	aatgcccttc	cctgcccaca	gggacatgtc	960
tctccttgtg	agacagagta	aatctatgtc	tctaacagac	atggtcaacc	tgcttccc	1020
tttcccatac	agtactcctc	ccctgggtca	tgctctccca	cctgagggtc	cgtgtgtagt	1080
tcagaaaggg	tgtgataccc	aggaacttct	ggatgctctc	cattgagggt	gctgggttgg	1140
tacgcagctc	ttgcccattc	acaatcagca	actaaaagga	cagggatgtg	gttccctcta	1200
tattcctaag	aagcctctgg	gdtgaaggga	agaagagggg	aaggggaacc	ccactgaggg	1260
ctcttgtggg	gattatacct	gtccagaggg	gtagtaagtc	agccagcggt	gtagatgggt	1320
agaatagtag	ccagggacaa	gacagcgggt	ctgcagggag	cgtagtgcca	gaggggtctg	1380
ggaggagggt	gaaatcacct	gatagaaggt	atagttcaga	gcaactgggt	ctcatgggc	1440
tcgctgatgc	tgaaggacaa	agagaaggaa	ggtgaaggac	tggtgatttg	acagtattct	1500
gcccttacgc	ttggtctgga	gacagacagc	acagcacggg	taccggtccc	caaggcacta	1560
gttaagtttc	tcaaacctca	ctcctttctc	cctctctagc	agtcactgtc	ccctcccccc	1620
tccccccaac	cttttagctg	tgtgtcccta	gcttcaggca	gacctggtag	caggagtagg	1680
ccctgtcagc	agggttgggt	agcactgtga	tgatcttggc	tcgtggcagg	agggcagccc	1740

cccgccgtgg	tacaacttca	gagtcaaagt	aggtggcact	tttttcaa	atcgaggaa	1800
tgctggcatt	ggaaggaaca	gggaagaaat	ccatgtacct	aggaagtgc	acagaagaga	1860
gagaagcaga	aaaatatgca	gagtgaagt	gccagaagtc	tgtgctgagg	gaagctggaa	1920
tggggatatt	tgggggaagg	gagtgttcct	ctgagaaaca	ttcaaattgg	gccagtcctc	1980
accagtcaat	acccttggtg	taattagggc	tgttgaagaa	ctgaatctcc	tcaaattgtc	2040
tggggctagg	gaagctgcta	gttacagctg	ggtgcaggct	caggaagaag	tgaatagctg	2100
tagtccctaa	atgggagaga	aaga				2124

<210> 1999
 <211> 207
 <212> DNA
 <213> Homo sapiens

<400> 1999						
ccttgagtgg	taactttatc	ttagtccagg	tgattccagt	tgcagagta	gctaggtgcc	60
ctgcgataac	tctctcccct	tgagggtttc	cagtgtggga	agttgtcatt	taggcgcgcc	120
aaaagtggtc	tggcctctcg	tgcttcttga	gatcccttcc	gggctctggg	ctatcttgtc	180
tccttagctg	ggggcctaca	gtcatct				207

<210> 2000
 <211> 2971
 <212> DNA
 <213> Homo sapiens

<400> 2000						
aaacagaaaa	ataaggatgt	ttattaagga	catttctagc	ccacagctag	ggctcatact	60
cggctctatg	agccactgtc	cgacctcctc	cccattcaat	gtgaatgaca	ttagggaggc	120
cgggccacag	gtagatccca	ctgcctggct	aaagggggcc	tagaagggg	tccctcccat	180
gcaaggggtc	tctcccatag	ccaggtatag	aatagataca	ctgctgcgga	tgaagaggga	240
aatctcattg	gactaataca	ttcccctaca	ccctgcctgg	accctctcat	tcctccccac	300
ctcccaagat	gatgggtcaa	aggtacctag	cactattatg	tggggtagca	aaggaagccc	360
ctttatttgt	cccagaactg	tgggaaaagg	atacccttcc	cttctcagcc	atctcaggcc	420
tgggggctac	tgaggtagag	ggggaggggc	caggccactc	taatccccct	tgtgggccct	480
gctctggacc	tgccccttag	ggaagcaggg	ggcattttgc	tggtatggga	ggctgggaca	540
tcagcccagc	ctggaatgct	gcagttcttc	ccgaagcac	gagggcactg	gctgtccaag	600
ccggctcagc	agcttcgaca	actccaaatt	atggttccgg	aaaaaatccg	taaggaaaag	660
acgggactga	caggagaaaa	tgaaggcaga	aatggtaaga	agtgggacac	agaatcagat	720
cctggaagtg	gagagggatt	cccctgcccc	tggctttact	tacctcagtg	tccatatctg	780
gatacctccg	gcctttgctc	cggcctagac	agcgagtctt	accaccttca	agtcctctgg	840
accaaaatcc	cttatcatca	tcaaacctgc	tcaacaggaa	gaggccatga	ggtggcaggg	900
aaaagagaaa	ctcaagtctc	ataaatgcac	aatgcccttc	cctgcccaca	gggacatgtc	960
tctccttgtg	agacagagta	aatctatgtc	tcaacagac	atgggtcaacc	tgcttcccca	1020
tttcccatac	agtactcctc	ccctgggtca	tgctctccca	cctgagggtc	cgtgtgtagt	1080
tcagaaaagg	tgtgataccc	aggaacttct	ggatgctctc	cattgagggt	gctgggttgg	1140
tacgcagctc	ttgcccctcc	acaatcagca	actaaaagga	cagggatgtg	gttccctcta	1200
tattcctaag	aagcctctgg	gctgaaggga	agaagagggg	aaggggaacc	ccactgaggg	1260
ctcttggtgg	gattatacct	gtccagaggg	gtagtaagtc	agccagcggt	gtagatgggt	1320
agaatagtag	ccagggacaa	gacagcgggt	ctgcaggagg	cgtagtgcga	gaggggtctg	1380
ggaggagggt	gaaatcacct	gatagaaggt	atagttcaga	gcaactgggt	ctccatgggc	1440
tcgctgatgc	tgaaggacaa	agagaaggaa	ggtgaaggac	tggtgatttg	acagtattct	1500
gcccttacgc	ttggtctgga	gacagacagc	acagcacggg	taccgcgtcc	caaggcacta	1560
gttaagtttc	tcaaacctca	ctcctttctc	cctctctagc	agtcactgtc	ccctccccc	1620
tccccccaac	cttttagcctg	tgtgtcccta	gcttcaggca	gacctggtac	caggagtagg	1680
ccctgtcagc	aggggttggg	agcactgtga	tgatcttggc	tcgtggcagg	agggcagccc	1740
cccgccgtgg	tacaacttca	gagtcaaagt	aggtggcact	tttttcaa	atcgaggaa	1800
tgctggcatt	ggaaggaaca	gggaagaaat	ccatgtacct	aggaagtagc	acagaagaga	1860
gagaagcaga	aaaatatgca	gagtgaagt	gccagaagtc	tgtgctgagg	gaagctggaa	1920

tgggggtattt	tgggggaagg	gagtgttcct	ctgagaaaca	ttcaaattggg	gcccagtctc	1980
accagtcaat	acccttgtgg	taattagggc	tgttgaagaa	ctgaatctcc	t aa aatgtgc	2040
tgggggctagg	gaagctgcta	gttacagctg	ggtgcaggct	caggaagaag	tgaatagctg	2100
tagtccctaa	atgggagaga	aagaccagct	tcaggcagcc	attgtgggag	ggaagccagc	2160
tcaacagcat	aagcttgaag	gaagtgaaaa	aataaccact	ctgggttagga	aaatccccta	2220
tggccaaact	acaatgtag	gaggcaagtc	tgagagaggc	ccagggaagg	gctaaaacag	2280
tggttctctg	ctttaactgt	gcaccagaat	gacttgtgat	cttgtaaaaa	caccacagat	2340
gattctgata	tacaaccagg	gttaggaatc	actgcctcaa	gagactggat	caatgagggg	2400
tgggtataaaa	aggagtccct	ttttttctct	cttaaaaaatt	caaattagg	ccgggtgctg	2460
tggctcatgc	ctgtaatccc	agcacttttg	gaggccaagg	caggcggtatc	acttgaggtc	2520
aagagttcga	gaccagcctg	gccaacatgg	tgaaaccccg	tctctactaa	aaatacaaaa	2580
attagccagg	tgtggtggca	cctgcctgta	atcccagcta	ctagggaagc	tgagcagaat	2640
tgccctgaacc	tgggaggtgg	aggttgtagt	gagctgagat	cgtgccactg	cgctccagcc	2700
tgggcaaaga	agtgagactc	ttatctcaaa	aaaaaaaaaa	ttattaaaat	taaaaatact	2760
tttttctactc	ctgtgattac	ctggagagag	aagagagttc	cttgacaaaa	ggatcctttg	2820
ggtttaaggc	agggcaagag	aagttagcta	aggatacttc	a ctgttttc	tggggtccca	2880
caatgaggaa	cttcgggaga	cgatcacagg	ttttctcctt	ggaccagata	tctttgtgcc	2940
tcttgtcatc	acagggattc	tgaagccagg	g			2971

<210> 2001
 <211> 1821
 <212> DNA
 <213> Homo sapiens

<400> 2001						
cctcgagcct	agtagttcaa	ggttgcagtg	agctaggatc	gggccactgc	actccatcct	60
gggtgacaga	gtgtgaccct	gtctcaaaaa	caaacaaaaa	acacctttgg	agaaactgca	120
gctctgtgga	caccataaat	cccaagcagc	atgcttggca	gtgccctcct	cccactgctt	180
ctgtctagaa	actacaccca	cgtgggcact	ccccctacc	ctaaaaaacc	aggccactcc	240
aaggaggaaa	ttgtctcaac	cagcatctca	cagtgaggaa	aaatctgcat	cacaaattgc	300
aggccaccat	gaagtttctg	gagtaccact	gccagcctct	tccaggcttg	ggtaccctct	360
catcacctcc	tccagggagc	ttttcatgac	ttccccagaa	taagtcacta	tgccccatact	420
gatgttccca	gtcctgaacc	cactccttca	gcactggcat	ccaggggctg	tgaattttca	480
cttccctgtc	tctctcatca	gactccactc	ttctacgaga	aggaagaat	ttgcatttat	540
tgtaaaatgc	tgattagggtg	ctaattcattc	gacacccacc	atctctaatt	ctcaccacag	600
ttctgtgagc	cggtatgttat	cattcccact	at a acactc	aggtgaaatg	acctgttcaa	660
ggtcaaattc	aggtccatat	ggctcccaag	cctgggcagc	ctctctatgg	tctgatgggtg	720
tctcgtcggc	tccataagcc	ccactccctg	cccacacccc	cagcacatca	cttagaaaaat	780
gcccctgggt	tacagtgcc	cggtcagatg	cacagatgtg	tacacatggg	gtcacagtca	840
ctgacctgga	aacaaagcca	ctttgcccac	gcacttattt	ctcagcgcca	gagaacccag	900
ggtgcaggaa	ggcctcgga	caccaccacc	tccactgcca	aggcaacgag	ctggggccgg	960
cacgtggtga	gcaagaaagg	caccaagctc	tggagctgga	cggaacaagg	ctcaaatccc	1020
agtggtagca	accacacgct	cccgggca g	tgatttccaa	tccctaagcc	tccccatttg	1080
gtcatcataa	agatcccccc	tgctcttgga	ggctgctaca	gtttgtgaaa	aggaggggat	1140
acacaggctc	cgaataaacg	gaggctctcg	tcccttctcc	gccttccctg	tcaactggctc	1200
cagggtctga	gagagcagca	accttgtttc	tctggtctgt	aaaatgggtct	gtttcttttc	1260
ggctccactg	cgctatggaa	atcgtggggg	tgcggggagg	ctgcagcttg	tcatccagcc	1320
cccaggcact	gactgcagag	atcccacccc	tgaccccccc	agactgggat	gccaggaggg	1380
gcagaggatc	tgcacttctg	agctgtgtgc	cttgagccaa	gcacttgacc	gcctgtgctc	1440
caggtccctc	agctttgagc	aggggctaac	ggaagaacct	gccttgccag	gttgttgtag	1500
taaatgagtc	aacacacggt	tcacacttag	cacagtgcc	agctcccagt	aaatgctcaa	1560
tagatggaag	ctatgattag	tcatggaaca	cggcctttct	gctgtcctcc	ctgccatgga	1620
aaatgggtaa	ctcagctgga	gggcagttcc	tctgtgtaga	ctggccaagg	cccggggat	1680
gaggcagggt	acctgggtgc	caaaccagcc	ccctctgcta	ccaatgctcg	gcaacacacc	1740
gacagtcaag	acacacagga	ggacgtccca	tctcccttgt	atccaattcg	gcaccatatc	1800
ccagtgcctg	gcacaagacc	t				1821

<210> 2002
 <211> 1821
 <212> DNA
 <213> Homo sapiens

<400> 2002
 cctcgaacct agtagttcaa ggttgacagt agctaggatc gggccactgc actccatcct 60
 ggggtgacaga gtgtgacct gtctcaaaaa caaacaacaa acacctttgg agaaactgca 120
 gctctgtgga caccataat cccaagcagc atgcttgga gtgccctcctccactgctt 180
 ctgtctagaa actacacca cgtgggact cccctaccc ctaaaaaac aggccactcc 240
 aaggaggaaa ttgtctcaac cagcatctca cagttaggaa aaatctgcat cacaattgca 300
 aggccacat gaagtttctg gactaccact gccagcctct tccaggcttg ggtaccctt 360
 catcacctcc tccaggagc ttttcacgac tttccagaa taagtacta tgccatact 420
 gatgttccca gtcctgaacc cactccttca gactggcat ccaggggctg tgaattttca 480
 cttccctgtc tctctcatca gactccactc ttctacgaga agggaagaat ttgcatttat 540
 tgtaaaatgc tgattaggtg ctaatcattc gacaccacc atcttaatt ctaccacag 600
 ttctgtgagc cggatgttat cattccactc atacacactc aggtgaaatg acctgttcaa 660
 ggtcaaattc aggtccatat ggctcccaag cctgggcagc ctctctatgg tctgatgggtg 720
 tctcgtcggc tccataagcc cactccctg cccacacccc cagcacatca cttagaaaaat 780
 gccctgggt tacagtcca cggtcagatg cacagatgtg tacacatggg gtcacagtca 840
 ctgacttga aacaaagcca ctttgcccat gcacttattt ctgagcgcca gagaaccag 900
 ggtgcaggaa ggctcggca caccaccacc tccactgcca aggcaacgag ctggggccgg 960
 cacgtggtga gcaagaaagg caccaagctc tggagctgga cgaacaagg ctcaaattcc 1020
 agtggtacca accacacgtc cccgggcaag tgatttccaa tccctaagcc tccccatttg 1080
 gtcatacata agatcccccc tgctctgga ggctgtaca gtttgtgaaa aggagggtat 1140
 acacaggtc cgaataaacg gaggtctctg tcccttctcc gccttccctg tctactggctc 1200
 cagggtctga gagagcagca acctgtttt tctggtctgt aaaatggtct gtttctttct 1260
 ggctccactg cgctatggaa atcgtggggt tgcggggagg ctgcagcttg tcatccagcc 1320
 cccaggcact gactgcagag atccacccc tgaccccccc agactgggat gccaggaggg 1380
 gcagaggatc tgcacttctg agctgtgtgc cttggccaa gcacttgacc gcctgtgctc 1440
 cagggtccct agctttgagc aggggctaac ggaagaacct gccttgccag gttgtgttag 1500
 taaatgagtc aacacacgtt tcacacttag cacagtgcc agctcccagt aaatgctcaa 1560
 tagatggaag ctatgattag tcatggaaca cggcctttct gctgtcctcc ctgccatgga 1620
 aaatgggtaa ctgagctgga gggcagttcc tctgtgtaga ctggccaagg ccccggggat 1680
 gaggcagggt acctgggtgc caaaccagcc cctctgcta ccaatgctcg gcaacacacc 1740
 gacagtcaag acacacagga ggacgtccca tctcccttgt atccaattcg gcaccatata 1800
 ccagtgcctg gcacaagacc t 1821

<210> 2003
 <211> 313
 <212> DNA
 <213> Homo sapiens

<400> 2003
 tttctttttt tttttttttt tttttttttt tgagacagcg tctcactctg ttgccaggcc 60
 tggagtgcag tggtaacaat acacaactca ctgcacctcc acctcctggg ctcaagcaat 120
 cccctgcct cagcctctgg agcagctggg actataggca tgagccacca tgcccagtta 180
 atttttaaaa attatttttt gtagagacgg ggtttcacca tgctgtccag caggctctga 240
 actccgggc tcaagcaatt ctcccacctt ggcctcccaa agtattgaga tgacagggtg 300
 gagccaccgc gcc 313

<210> 2004
 <211> 313
 <212> DNA
 <213> Homo sapiens

<400> 2004

tttctttttt	ttttttttt	ttttttttt	tgagacagcg	tctcactctg	ttgcccaggc	60
tgagtgagcag	tggtacaatc	acacaactca	ctgcacctcc	acctcctggg	ctcaagcaat	120
ccccctgcct	cagcctctgg	agcagctggg	actataggca	tgagccacca	tgcccagtta	180
atttttaaaa	attatttttt	gtagagacgg	ggtttcacca	tgctgtccag	caggtctcga	240
actcccgggc	tcaagcaatt	ctcccacctt	ggcctcccaa	agtattgaga	tgacaggtgt	300
gagccaccgc	gcc					313

<210> 2005
 <211> 1399
 <212> DNA
 <213> Homo sapiens

<400> 2005						
ccttgagcta	gcatttcatt	atgaccgtga	tttttccccg	catcactttc	cagccttggtg	60
gtccacaatt	ccactggggc	ctaagtatgt	actgaacttt	cctgcctccc	tcattttgtc	120
ctgcttggtc	aattttttcc	accctccatc	tctgtcaaac	ataagccttc	ctgacctcta	180
agacctacct	ttgtcatgtg	cctttaccct	caggcaaggg	gcaatctctt	ctattcctct	240
tctaccttcc	tgtagcttct	cccccagggt	ttatcacatt	ctgccttgaa	tcctagggaa	300
caacatgtgt	agtggaaatga	acacaggcct	ctgaatccaa	gatgtgagtt	taaatcccag	360
ccttgagggt	ggttacttaa	gttctcagtg	ccttcattct	tcttctata	taaagtagat	420
attacaatat	ctaacttaca	gagtcattgg	gagctataca	tgcatgtgatt	gggtaaagca	480
cctggcacat	ggcaagcaat	tagcaaatgc	tggttacttc	tacttctttc	tcttctcttt	540
tcccagtgta	tcataagttc	cttgagagca	ggcaccatgt	ctgatttacc	cttgattttc	600
ccacagtact	tcccgtagt	agttaccctt	agtaaatact	cagtaagttg	aattgaattt	660
aaattacctg	taagtcttaa	aatgtgggat	taaattaaga	gtatgttgcc	ctggaaatac	720
cctaatgtct	accgatggat	gaatggataa	acaaaatgtg	atatacacat	aatggaatat	780
tattcagcct	taaaaaggaa	tgaaattctg	acatgtgcta	cagtatgatg	aacctggaag	840
acattatatg	tgaaataagc	cagacagaaa	aggacaaata	ctctatgatt	ccacttatat	900
gaagtaccta	gagtagtgaa	attcatagaa	atagaaagta	caggttgaa	tcgcaaattc	960
gaaatgggaa	attctccaaa	atctgaaact	ttttgaatgc	tgacatgatg	ctcaaagaaa	1020
atgctcgttg	gagcgtttca	gattttggat	ttttggattt	gggatgctca	actggcataa	1080
tgtgaatatt	ccaaattctg	aaaaaatctg	aagtctaaaa	cacttctggg	ctcaagaatt	1140
ttggataaag	gatactcaat	gtgcaacatg	tagaattgtg	gttacaagggt	ggtaggagag	1200
aatggagagt	tactgtttaa	tggtacaatg	ttcccatttg	ggaagatgaa	aagttttggg	1260
ggtgtgtgat	ggttatgggt	gtgcaacaat	gggaagggtac	ttaatactgc	ttaactgtgc	1320
acacttaaaa	atggtaaaaa	tgataaattt	tgtgtatgtc	tbaacaat	aaaagaagtt	1380
ttttttttca	aaaaggaaa					1399

<210> 2006
 <211> 1399
 <212> DNA
 <213> Homo sapiens

<400> 2006						
ccttgagcta	gcatttcatt	atgaccgtga	tttttccccg	catcactttc	cagccttggtg	60
gtccacaatt	ccactggggc	ctaagtatgt	actgaacttt	cctgcctccc	tcattttgtc	120
ctgcttggtc	aattttttcc	accctccatc	tctgtcaaac	ataagccttc	ctgacctcta	180
agacctacct	ttgtcatgtg	cctttaccct	caggcaaggg	gcaatctctt	ctattcctct	240
tctaccttcc	tgtagcttct	cccccagggt	ttatcacatt	ctgccttgaa	tcctagggaa	300
caacatgtgt	agtggaaatga	acacaggcct	ctgaatccaa	gatgtgagtt	taaatcccag	360
ccttgagggt	ggttacttaa	gttctcagtg	ccttcattct	tcttctata	taaagtagat	420
attacaatat	ctaacttaca	gagtcattgg	gagctataca	tgcatgtgatt	gggtaaagca	480
cctggcacat	ggcaagcaat	tagcaaatgc	tggttacttc	tacttctttc	tcttctcttt	540
tcccagtgta	tcataagttc	cttgagagca	ggcaccatgt	ctgatttacc	cttgattttc	600
ccacagtact	tcccgtagt	agttaccctt	agtaaatact	cagtaagttg	aattgaattt	660
aaattacctg	taagtcttaa	aatgtgggat	taaattaaga	gtatgttgcc	ctggaaatac	720
cctaatgtct	accgatggat	gaatggataa	acaaaatgtg	atatacacat	aatggaatat	780

tattcagcct	taaaaaggaa	tgaaattctg	acatgtgcta	cagtatgatg	aacctggaag	840
acattatatg	tgaaataagc	cagacagaaa	aggacaaata	ctctatgatt	ccacttatat	900
gaagtaccta	gagtagtgaa	attcatagaa	atagaaagta	caggttgaca	tcgcaaactc	960
gaaatgggaa	attctccaaa	atctgaaact	ttttgaatgc	tgacatgatg	ctcaaagaaa	1020
atgctcgttg	gagcgtttca	gattttggat	ttttggattt	gggatgctca	actggcataa	1080
tgtgaatatt	ccaaattctg	aaaaaatctg	aagtctaaaa	cacttctggg	ctcaagaatt	1140
ttggataaag	gatactcaat	gtgcaacatg	tagaatgggt	gttacaaggt	ggtaggagag	1200
aatggagagt	tactgtttta	tggtacaatg	ttcccatttg	ggaagatgaa	aagttttgga	1260
ggtgtgtgat	ggttatgggt	gtgcaacaat	gggaagggtac	ttaatactgc	ttactgtgc	1320
acacttaaaa	atggtaaaaa	tgataaattt	tgtgtatgtc	ttacaacaat	aaaagaagtt	1380
ttttttttca	aaaaggaaa					1399

<210> 2007

<211> 788

<212> DNA

<213> Homo sapiens

<400> 2007

ggaaacattg	cttctgtacc	agccaaætt	ctgctcctga	agaatatctc	tgctatgggc	60
ctgtactgtg	gtcaatacaa	aaaatgaact	ttcccgtctt	ctccaagagc	ctatcttcag	120
tgcttcggta	ctgccagcaa	gggcgcatcc	aaccatatgt	cggaatgggt	ttcaagctgg	180
atgaggtcaa	tgatgccttc	cttcatgtga	tacaggggaa	atccgtgggc	aagggtgctc	240
tcgctcttaa	ataaatcctc	acctgagcag	caaagttaac	atgtccagat	caaaactcca	300
catctttccc	caaaacctga	tttcccttct	gtgtttccaa	aggtgttacc	actttcctta	360
ccaatccagg	tttaaaatct	tggagtcacc	tttgattctg	tttactaatt	gcccctaatt	420
aatatgatta	tatagtttat	tgtccaaacc	tttttgagag	taaaagggtg	ccattagtaa	480
ttacatcagg	aaaacatata	ccaggcaaac	caggatatat	ggtcagccta	ctcgatgcat	540
tatgaaatgc	agtgattgcc	aagttctgtc	attcccacct	ctaagatata	tcttacctcc	600
atatactctt	ttccattctg	actaatlaag	cctcaactgc	tgtcaccagt	gacttctaa	660
ctgcttttcc	tacctttaaa	ctaccctcac	cccctccatt	cttgtgatgc	attattgcca	720
tggtgatctt	cccgaagcat	agctctgact	atggcccata	tcagaaaacc	tacagtggct	780
caccgttg						788

<210> 2008

<211> 788

<212> DNA

<213> Homo sapiens

<400> 2008

ggaaacattg	cttctgtacc	agccaaacct	ctgctcctga	agaatatctc	tgctatgggc	60
ctgtactgtg	gtcaatacaa	aaaatgaact	ttcccgtctt	ctccaagagc	ctatcttcag	120
tgcttcggta	ctgccagcaa	gggcgcatcc	aaccatatgt	cggaatgggtt	tcaagctgg	180
atgaggtcaa	tgatgccttc	cttcatgtga	tacaggggaa	atccgtgggc	aagggtgcttc	240
tcgctcttaa	ataaatcctc	acctgagcag	caaagttaac	atgtccagat	caaaactcca	300
catctttccc	caaaacctga	tttcccttct	gtgtttccaa	aggtgttacc	actttcctta	360
ccaatccagg	tttaaaatct	tggagtcacc	tttgattctg	tttactaatt	gcccctaatt	420
aatatgatta	tatagtttat	tgtccaaacc	tttttgagag	taaaagggtg	ccattagtaa	480
ttacatcagg	aaaacatata	ccaggcaaac	caggatatat	ggtcagccta	ctcgatgcat	540
tatgaaatgc	agtgattgcc	aagttctgtc	attcccacct	ctaagtata	tcttacctcc	600
atatactctt	ttccattctg	actaatlaag	cctcaactgc	tgtcaccagt	gacttctaa	660
ctgcttttcc	tacctttaaa	ctaccctcac	cccctccatt	cttgtgatgc	attattgcca	720
tggtgatctt	cccgaagcat	agctctgact	atggcccata	tcagaaaacc	tacagtggct	780
caccgttg						788

<210> 2009

<211> 1344

<212> DNA

<213> Homo sapiens

<400> 2009

tgattgtaag	tttcctgagg	cctcctcaga	agccaagcag	atcttagcac	catgcttcct	60
gtaagccctg	cagaaccatg	atccaactaa	gcctcttttc	ttataaatt	atccagtccc	120
aggcatttat	ttatagtaat	gcaagaacga	actaacacag	catggaaggc	tcttgatgat	180
ctagtgtatt	actttcttgt	ggctcctgta	ataaattatc	acaaacttag	tggcttaaaa	240
caatacaaat	ttattttatc	tcctgcagat	caggcatcag	aagtccaaaa	tcagtcttct	300
ggggcaaaaa	tccaggtgtc	aacagggctg	tgatacttct	gaagactgca	gggagaatcc	360
gttttccagc	ttttttcatc	caccagaggc	cacctgtatt	ccctatccca	caaccctagc	420
cccttcctct	atctttgaag	tggactatct	catcccctgt	ttctatcatg	acagtgcctt	480
ctctcatatt	gacctctctg	ccttataaga	ttccttga	ttacactggg	tccacctgca	540
taatcaaggc	taatctctcc	atctggagat	cttaataata	tcacatctac	aaagtccctt	600
tggccattga	agtaacatat	ttatatgttt	tcattattag	gatgtgggac	actttgtcag	660
ggacagggat	ttttcagcct	accttttttc	ttcacctttt	gccaccactc	tcagcctgtg	720
gtctcaattg	ccagccttta	cacttgctac	ccccattgtc	tgggtagttc	ataccagtcc	780
ctcaagacta	gcctcaggca	ttgcctcttc	tgggaatata	tcctcttaca	ggccaggata	840
tgactcatgg	gtgcattcct	aatagcactt	cacttatttc	tactgtcacc	acactgatct	900
gtaattactt	gatttgtctg	actcttctgg	ggcttgtaa	gcattctggc	acagagaact	960
atgacttact	ggggctttaca	tctcttgcta	aacacagtac	ctaaaattta	gtaggcattc	1020
cctcataaac	atgaatgaat	gaatcaaaga	atgaataaac	atttaggaaa	tgatgtttgtg	1080
ttgggtcaact	tctttcctca	tcactgttaa	agataaaaaga	atgccaagcc	aggttgttca	1140
gacagaagca	agcaccacat	ccctgagaga	gcagcacatc	tgggcagcca	tgtgtgagaa	1200
gtcggttgca	ttccccatac	acagttgtct	ttgcagctgt	actcttaacc	actgtaacca	1260
cagaagtggg	gaaacaatag	ggtgggggtga	agtgaaaaga	aaattttcca	aaacttcatt	1320
tatctaataa	atacagatat	ttaa				1344

<210> 2010

<211> 1344

<212> DNA

<213> Homo sapiens

<400> 2010

tgattgtaag	tttcctgagg	cctcctcaga	agccaagcag	atcttagcac	catgcttcct	60
gtaagccctg	cagaaccatg	atccaactaa	gcctcttttc	ttataaatt	atccagtccc	120
aggcatttat	ttatagtaat	gcaagaacga	actaacacag	catggaaggc	tcttgatgat	180
ctagtgtatt	actttcttgt	ggctcctgta	ataaattatc	acaaacttag	tggcttaaaa	240
caatacaaat	ttattttatc	tcctgcagat	caggcatcag	aagtccaaaa	tcagtcttct	300
ggggcaaaaa	tccaggtgtc	aaagggctg	tgatacttct	gaagactgca	gggagaatcc	360
gttttccagc	ttttttcatc	caccagaggc	cacctgtatt	ccctatccca	caaccctagc	420
cccttcctct	atctttgaag	tggactatct	catcccctgt	ttctatcatg	acagtgcctt	480
ctctcatatt	gacctctctg	ccttataaga	ttccttga	ttacactggg	tccacctgca	540
taatcaaggc	taatctctcc	atctggagat	cttaataata	tcacatctac	aaagtccctt	600
tggccattga	agtaacatat	ttatatgttt	tcattattag	gatgtgggac	actttgtcag	660
ggacagggat	ttttcagcct	accttttttc	ttcacctttt	gccaccactc	tcagcctgtg	720
gtctcaattg	ccagccttta	cacttgctac	ccccattgtc	tgggtagttc	ataccagtcc	780
ctcaagacta	gcctcaggca	ttgcctcttc	tgggaatata	tcctcttaca	ggccaggata	840
tgactcatgg	gtgcattcct	aatagcactt	cacttatttc	tactgtcacc	acactgatct	900
gtaattactt	gatttgtctg	actcttctgg	ggcttgtaa	gcattctgg	acagagaact	960
atgacttact	ggggctttaca	tctcttgcta	aacacagtac	ctaaaattta	gtaggcattc	1020
cctcataaac	atgaatgaat	gaatcaaaga	atgaataaac	atttaggaaa	tgatgtttgtg	1080
ttgggtcaact	tctttcctca	tcactgttaa	agataaaaaga	atgccaagcc	aggttgttca	1140
gacagaagca	agcaccacat	ccctgagaga	gcagcacatc	tgggcagcca	tgtgtgagaa	1200
gtcggttgca	ttccccatac	acagttgtct	ttgcagctgt	actcttaacc	actgtaacca	1260
cagaagtggg	gaaacaatag	ggtgggggtga	agtgaaaaga	aaattttcca	aaacttcatt	1320
tatctaataa	atacagatat	ttaa				1344

<210> 2011
 <211> 340
 <212> DNA
 <213> Homo sapiens

<400> 2011
 agaaaaggaa gagctattct gacagagaaa gatggcacia agaaccactt ggtcttagtc 60
 tcagactcac ctttgacctg gttgtggtgt cccctaagtgtgtacagcag tcacaaaagt 120
 ccatctgacc ctgccctagt ctggctgtca tatgacctat cccccacccc cactgcgagt 180
 atctttctaa agaggaaatc tgatcaagct acctccctaa ctaaaatccc ttagtggctt 240
 tccagcatgg cacgtgacat agcttggatt cttgtcccca tccaaatctc atgataaaat 300
 gtaatcccca gtattggagg tggaccctgg tgagagcacc 340

<210> 2012
 <211> 340
 <212> DNA
 <213> Homo sapiens

<400> 2012
 agaaaaggaa gagctattct gacagagaaa gatggcacia agaaccactt ggtcttagtc 60
 tcagactcac ctttgacctg gttgtggtgt cccctaagtgtgtacagcag tcacaaaagt 120
 ccatctgacc ctgccctagt ctggctgtca tatgacctat cccccacccc cactgcgagt 180
 atctttctaa agaggaaatc tgatcaagct acctccctaa ctaaaatccc ttagtggctt 240
 tccagcatgg cacgtgacat agcttggatt cttgtcccca tccaaatctc atgataaaat 300
 gtaatcccca gtattggagg tggaccctgg tgagagcacc 340

<210> 2013
 <211> 2593
 <212> DNA
 <213> Homo sapiens

<400> 2013
 tgggcacctg taatcccagc tagttgggag gctgaggcag gagaatgaat cgtttgaacc 60
 caggaggtgg aggttgacgt gagctgagac cgcaccattg cactctagcc tgggcaacaa 120
 gagcaaaact ccgtctcaaa ataaatacat acatacatat atgcatacat acatacatat 180
 atacggggat taaaatagtc tagtagtgac acctgaacag agagattgat ccaagaaatg 240
 aaacagaaat tccggaagtt gacctgaata cacacacaca cacacacaca cacacacaca 300
 cacacacgaa ggcgtgaaag actccatgac cctcaagta taagatgcat tttttttttt 360
 tttttgagac aggggtctcac tctgtcacc agactgggtg cagtgggtgta ctatcccagc 420
 tcagctctac cctccatccc cccaacctcc cccaaccacc ctgagctcaa gcaatttctca 480
 tgctcaacc ctcagcctca tgagtaactg ggactacagg cgtgcaccac catgcgagc 540
 taattttttg tatttttagt agagatgggt ctaaccatat tgcccaggct ggtctcgaac 600
 tcctgagctc aagcgatcct cttgcttcag cctcccaaag tgctggcatt acagctgtga 660
 gccaccgcac ctggccgcac tcttctaaat cacagtacat ctggctccca gtgcccaggc 720
 tctcagggca gaagggtccag tgtgatcact ttgcatggcc tctctcccct cctgagcttg 780
 tgccagggcc ccagggtgca cctggagaag gaaaatggca gagggtgaag atggggtgtc 840
 tggtttgggg accatcctgg ccccccttgt cactgttgac atctcttctg cacagtggca 900
 ttgctgggag gtgcttactg tgctattca aggggctggc agccgcagcc tcaactgcaga 960
 tcagggactt ggcttcccag ttgaccacag gtccaagaac ctgcagggtc cagcctcccc 1020
 cccatcccca gtcttcccca cctgggcccg gccctccagg tgcaaaaaca tgcaggcccc 1080
 tctccaggac tgtgggagga gcggtgccc cagactggcc tgtgtcctgg ctccctctac 1140
 cacctcttcc acaggttgct acctgagct gccccaggat aaaggcaagg ccagagagga 1200
 ctctggaact cctgtgtgcc tggggtggca ggggcaaaaca tagccaactg gtggcctgag 1260
 cggggccatg gtgaggacac ccttgggtggc ttgtcccaca tcaagctggg aggtgacact 1320
 gaggatgcat tagtctgcag cgtatgataa aaacggcatt tcaggccagg cgcggtgct 1380
 catgcctgtc accccagcac cttgggaggc caaggtgagc agatcatatg aggtcaggac 1440
 tttgagacca gcctggccaa catggtgaaa actcatctct actaaaaaaa caaaaattat 1500

gtgggttggt	ggtgtgcgcc	tgtaatccca	gctacttggg	aggctgaggg	aggagaatca	1560
cttaaacctg	ggaggcagag	gctgcaacga	gccgaaattg	caccactgca	ctccaggctg	1620
actccgtctc	aaaaaaaaaa	aaaaaaaaaa	aggcatttca	gttcaaatag	ggaaaaggata	1680
catctttctt	tcttttctct	ttctttcttt	ctttctttct	ttctttctct	ttctttcttt	1740
ctttctttct	ttctttcttt	ttctttctct	ctttctttcc	ttctttctct	ttctttctct	1800
tttctctcgt	tctctctttc	tttttgagat	ggagtttcac	tctcgtgcc	caggctggag	1860
tacaatggcg	tgatctcggc	ttattattat	tctccatgtt	ggtcaggctg	gtcttgaact	1920
cccaacctca	ggtgatccgc	ctgcgttggc	ctcccaaagt	gctggtgtga	gccactgcac	1980
ccggcttagg	atgcattttt	caatatttta	gtgtttgaat	aacgggctaa	cttgagaaaa	2040
aaataatttg	aatcacacat	cacaccaaaa	ataaattcta	ggtggatttt	aacactttca	2100
aaaattatta	ttattattag	tttagagaca	gggtctcact	ccgtcgtca	ggctggagtg	2160
gagtggtag	atcatggttc	actgcaacct	taaactcctg	gcctcctatg	atcctccagc	2220
ctcagcctct	caaaggactg	gaactacaaa	catgcaccac	cacgcccagc	ctaggtgggt	2280
ttttaaaatc	cattcaaggg	cgggtgcagt	ggctcacacc	tgtaatccca	gcattttggg	2340
aagccaaggt	gggaggatca	cttgagccca	ggagttcgag	accggcctgg	gcaacatagt	2400
gagactacat	ctctacaaaa	aatttaaaaa	tgagccaggc	atggtggtgc	acacctgtag	2460
tctctgctat	tcaggaggct	gaggcgggat	cattgtttga	gccaggaga	cagattgcag	2520
tgagctatga	tggcaccact	gcattggcagc	ctgggtgaca	aaggagatt	cagtctcaaa	2580
aaaaaaaaaa	aaa					2593

<210> 2014
 <211> 149
 <212> DNA
 <213> Homo sapiens

<400> 2014						
ggctgggtgc	agtggctcac	acctgtaatc	ccagcacttt	gggaggccga	gacagggtgga	60
tcacctgaag	tcaggagttt	gagaccagcc	tggccaacat	ggtgaaaccc	tgtctctact	120
aaaaatacaa	aagttagcca	ggcgtgggtg				149

<210> 2015
 <211> 8996
 <212> DNA
 <213> Homo sapiens

<400> 2015						
gacgggggtt	ggccatgttg	gccaggctgg	tctcgaactg	ctgacctcag	gtgatccgcc	60
tgcctcggcc	tcccaaagtg	ctgggattac	aggcgatttc	actgtgccc	agcctgagtt	120
tctgtttaga	aacaacagtc	tatgatagta	taatcctctc	ttttttgtac	acagagtaaa	180
gaggacaaat	aggtgaaaga	ataaatgaaa	ggctggaatc	ccacttcccc	cgtgtccca	240
gggcattgga	tattgacgga	taggaggcag	caaaccactc	acagagccag	gaagaaatga	300
aggcgttggt	attgccagga	ggggaagccg	gctcggctga	aatacgctat	gaccatagca	360
aggagatact	gatggagaga	aaggaacaca	gagagggaga	ggtcacatct	tggaagagga	420
agattgtgga	gagggggaat	gagggctctg	ggaggggctg	cccatcagag	aagggacctc	480
agtgttgggg	tgactgtact	catttggaaa	ttgcgcatg	gaggggtatt	cgaaggctcg	540
atgcaaattc	gagaagccag	aggaagggtt	ttgggtgatg	ctcccaggat	ggtgggctcc	600
gatgggatct	ttggaggggg	tgtgtctagg	ttggctgggt	tcaggagggt	cttttgtgtg	660
ccaggcagag	aactgtcccc	aagagctgag	agtagagggg	ccaggagctt	cagggctgcg	720
gccagactgt	ggcccagagc	tcagatccca	aaggacccat	aggagaggca	ggggccactc	780
attcactctg	caagagacca	gcagaatcct	gagggagatg	ctgacaaatc	ataaaaagac	840
caagaatagc	cgggagtggc	ggctcaagcc	tgtgatccca	gtactttttg	agaggtggag	900
acaggaggat	catgtgagcc	caacagttcg	agaacaacct	gggcaacata	gtgagaccct	960
gtttccacaa	acatttcaaa	aattagttga	gcatgggtgg	atgtgcctag	tcccagctcc	1020
tcaggaggct	gaggaaagaa	gattgcttga	gccaggaat	tagaggctgc	aatgagctat	1080
gatcatgcc	ctgcactcca	tcctggggag	cagagctaga	ttctgtctca	caaaaaaaaaa	1140
atttgtgggt	gccaaagactc	aagaccatgg	gagctggtcg	ggcacagtgg	ctgacgtcta	1200
taatctcagc	actttgggag	gccaaagggtg	gtggattgac	tgaggtcagg	tgttcaggag	1260

caacctggcc	aacatggcaa	aaccccgttt	ctactaaaaa	cacaaaaatt	agccaggcgt	1320
ggtggttcat	gtctgtaatc	ccagdgctt	ggaggctgag	gcaggagaat	cgcttgaacc	1380
caggaggcat	cggctgcagt	gagtgaagat	cgagacactg	ccctccagcc	tgggcaacag	1440
agcaagactc	tgtctcacac	acacaaaaaa	aaaaaaaaaa	aaaagactgt	aggagcatct	1500
ggtgggaggt	ggtggaggga	gaactgtggg	tttgggaagct	gcgccctccc	cccagcatg	1560
cgttggaaca	ggaacagtta	catggagaac	aaccttacct	tgtccgacac	cctcagatct	1620
ttgtcccagg	ccaggaatct	tttaatgaca	ggatcctctg	tgattagaga	gcagatgtca	1680
gtgtgagaag	caggacaggg	tttccgtggg	agcagcaggg	cagcgaggag	aagtgtgcct	1740
cccgggggga	agtctcagga	ttgtggccgc	gggtgaggtg	gatgggagag	gggagaatga	1800
ctttcactgg	gcaagggaga	gaggctcctg	ctctgagact	cccctgagaa	gaggccgaag	1860
gaggccctgg	gtgtgagaat	ctacaggatg	tagagctggg	aatcagccag	gacccctcc	1920
agcagacacg	gagggaccac	tgcagagtca	taaaggaatt	cccatcattt	cctcatgaga	1980
cagtcacaca	tgagggtgtg	accatggcct	tggatcccc	cactatggat	ggagacactt	2040
aggtttagaa	aagtacgtaa	gagacattaa	gtttcagagg	gcacagctga	aaccactttc	2100
tttgtttatt	gattttgttt	ttctttattt	gatttttatt	tttatttatt	tattaattta	2160
ttttgagaca	gagtcttgct	ctgtgggcca	ggctggaatg	cagtggcctg	atcttggctc	2220
actgcaacct	ctgcctcccc	ggtttaagcg	attctcctgt	ctcagcctcc	cgagtagctg	2280
ggattacatg	catgagctac	tgtgcccagc	cttggttttt	cttttgagac	agggttttgc	2340
tctgtcacc	aggctggagt	gcagtgggtg	agtcatactg	cactgagcc	tcaaagtcct	2400
gagttcaagc	aatcctcttg	cctcagcctc	ccaacgtgct	gggatctcag	gcgggagcca	2460
ctgcgcctgg	cccgaaccca	agctttctta	tcccaagcgc	tgacctttat	caagttgacc	2520
taatccttta	tcattctcta	agtgtccctc	atgagtgatc	acttcacatt	cctccacat	2580
ggagagctca	cccactgggg	cctatttttc	ccattggaaa	agtgtggtta	ttggaagttt	2640
cctgtttttg	gaaagaacag	gattggaggt	gctctctggg	gtgtcctcct	accaagcagc	2700
ctgttgaagg	cctcgtgggtg	ctcagggagc	acgagcgaca	ctcgccgtcg	cttcagcttc	2760
atcttgaggc	cacacagcat	ctccgccacc	cagatctcct	caggctcagg	ggcagacacc	2820
ttcctgggct	cctcctccga	ctcctcagat	ttgtcccacc	actccatctt	ccttttccag	2880
caaaaggacc	tatgcggggg	gctgggatct	acccagggg	ctgagtaaa	aaaccaggcc	2940
acgggtgta	gcttctgcag	ttgatcacac	tagagcccga	cccaaaacc	caaaccactc	3000
tccatcctcc	ccagcctcgc	agactgctgg	cttctccaag	ccatctttcc	ttctgtctgt	3060
ctcctctgct	gagctccatg	tgcgcctcct	tctcctcccc	attctcccgt	ttctctgtcc	3120
tcagaacact	tcctcatatc	cttccctggt	ccctggctct	ctgagtcctt	tttttttttt	3180
tttttttttt	gttgttgttg	ttgagaaaca	gtcttgcttt	gtggcctagg	ctggagtgt	3240
gtggtgcgat	cttggctcac	tgcaacctct	gctcctggg	ttccagtgat	tctctgcct	3300
aagcctccca	agtacaggtg	attacaggtg	cccacagaa	cgcccagctc	atttttgtgc	3360
ttctagaaga	gacagggttt	caccatgttg	gccaggetgg	tctccaactc	ctggcctcaa	3420
gtgatctgcc	tgcttgccct	cccaaagtgc	tgggattaca	ggtgtgagcc	actgaaccct	3480
gcctcagtac	ctccattctt	cccacacacc	ctcctcacgt	gctccttctt	gacttctggg	3540
cccgcccttc	cttctttttt	tttttttttt	gagacagcgt	ctcactctct	caccacagaat	3600
ggaatgcagt	ggcactatct	tggctcaaaa	caacctcttc	cacctgggtt	caagcgatta	3660
tctgtctca	gcctcccag	tagctgggat	aacaggcatg	cctggcta	ttttgtatcg	3720
ttagtataaa	tgacgtttcg	ctatattggt	ctggttggtc	tcgaacaact	gacctcaagt	3780
gateccacca	tctcagcctc	ccaaagtaat	gggattacag	gcatgagcta	ccacacccgg	3840
ccttcgtttt	tcttttgaca	cagggttttg	ctctgtcacc	caggctggag	tgcagtgggtg	3900
cagtcatagc	tactgagcgc	ctcaaagtcc	tgagttcaag	cagtctctct	gcctcagcct	3960
cccaacgtgc	taggatctca	ggcgtgagcc	actgcacct	gcccgaacc	aagctttctc	4020
atcccaagcg	ccaaccttta	tcaggtctag	cctagtcctc	tattgtctcc	taagtgtccc	4080
tcatgagtga	tcacttctga	gtcctcctgc	gtggagatct	cacccactgg	gggcgtatct	4140
ttcccattgg	aaaagtgtgg	ttattggaag	tttctctttt	ttagaaagaa	caggattgga	4200
ggtgctctct	gggggtgtcct	cctaccaagc	tgactgttga	agtccttgtg	gtgtcaagg	4260
aggatgggtg	acactcgtcg	ttgcttcagc	ttcatcttga	gcccacacag	cgtctccact	4320
accaggtct	cctcaggctc	aggggcgagc	tccttctccg	gctcctctc	agatctatct	4380
gaccactccc	tcttcctttt	ccagccaagg	gacctacatg	gggggctggg	atctacccca	4440
ggggctgagt	aaagaaaaca	ggccactgtg	taatgcttct	gcatctgatc	accttagacc	4500
ccgacccaaa	accccaaacc	actctccatc	ctccccagac	tcgcagactg	ctgacttctc	4560
taagccatct	ctctgatttt	ctcctctgct	caaccccatg	tgccgctctt	tccccctccc	4620
attcttctct	ctctctgtcc	tccgaacgct	gcttcatgtc	cttccctgtg	ccctggctct	4680

ctgagtcctt	ccttttttgt	tttgttttgt	tttgttttga	cacagaatct	tgctttgtca	4740
cccaggttgg	agtgtagtgg	tgcaatctca	gtcactgca	acatccatct	cctggattcc	4800
atttattctt	ctgcctcagc	ctctcaggtg	gtctgggatta	caggtgcctg	ccataatgcc	4860
cagctcaatt	ttgtactttt	agtagagaca	gggtttcacc	atgttggcca	ggctggtctc	4920
aaactcctgg	cctcaagtga	tccgcctgcc	ttggcctccc	aaagtctctg	ggttacaggt	4980
gtgagccacc	gcacccagcc	tgaattttctc	cattcttccc	acacaccctc	ctcaggttct	5040
ccttcctgac	cgctgaccct	tcttttcttt	tcttttcttt	ttttttttt	tggagtgcag	5100
tagcgtgatc	tcagctcact	gcaacctctt	cctcccagtc	tcaagtgatt	ctcctgtctc	5160
agcctcctga	gtagctggga	ttacaggtgt	gcaccactac	cacttggcta	atttttatac	5220
ttttagtaga	gatgggggtt	cacatatttg	gccaggctgg	ccttgaactc	ctgacctcag	5280
atgatccgcc	cgctcgggcc	tcccaaagt	ctggggttac	aggcgtgagc	caccgcaccc	5340
ggcccccttc	cttcgtctta	gtcaatccta	tcccacctct	tcttccacca	gtccccctac	5400
ctgatgggtc	caacacttca	tcattccacca	cctcctggag	ggggtacccc	gaggtgctcc	5460
gctggggact	ctgctcattc	tggcgggtgcg	gttgacggt	ggctcgtgatc	tttcccgtaa	5520
tctgtcccct	cttacggaac	ctagtctccg	ttctgtccat	ggccttcttc	tggacactgc	5580
taggatccag	aagagtatgt	tatcaattct	caagcctagg	agaagtcagg	agtggagaac	5640
agctctgaga	agatactgtt	gtccaactga	tctccaggca	ccacggagtc	cggtccctcc	5700
aatcaggaag	gtcggaaatc	ctgatgtcat	cgttcatgcc	aacctggcaa	ccagtttgaa	5760
aaaaaaacac	atgtaactgc	caggctgatc	tctgtcctg	gagatcctgg	gtgaatggta	5820
tctcctggcca	ctgtcccaac	ctcagaccat	tgtccaaaag	catcttcagg	gactccacat	5880
ccctctgttc	cctgtccca	cagaggctgt	gtctctcca	ctcaaagcct	gaagcatgtt	5940
ggggtctctt	cgtctctgta	cgtgcccatt	tcagagtcca	gtctgggtggg	agaggggaaca	6000
gagtgggaaa	gaaaactagg	gtaagcagaa	acgatgaaac	cttataagag	tgagattatc	6060
atgtacaaga	gtgagattat	catgtacaag	agtgaagatta	tcagtataca	gagatcccag	6120
gaatactgac	ttgatgaaaa	agtcacatca	gagcactcag	tttggcagag	cttttctgct	6180
gaatgtttac	tcacattcac	tgtccaagat	tctgtactgg	gggtacatac	gtcctctgcc	6240
ctaaggcaat	tttgagtcca	agagacattt	tgaggcctaa	aatcatagg	aaactgcccc	6300
tgagctcaca	catattttcca	atggagcca	cacatatttc	caatggtgtc	cccaatttca	6360
gggaatccat	ggattaccta	agccagcccc	tccagttcgg	ctaagaaact	ctagtctata	6420
tatcaagttt	tgtatcatat	gtattgctct	gaactcagaa	atttcccttc	catttatgga	6480
ttctatgaat	aaaatatcac	atgtacaaaa	agactaagtc	gaaaaatttc	agctgtgac	6540
agtggctcat	gcttgtaatc	ccagcacttt	gggtggccaa	gggaggaaga	ttgcctgagg	6600
ccagcagttc	aagaccagta	taggcaacat	agcaagagcc	catctctaaa	aaaacaaaac	6660
caaaccacaa	tagccagggtg	tggtggctgg	cacctgtgtt	ccaactactt	gggagactca	6720
tgtgacagga	agatcacttg	agccaggag	ttagaagctg	cagtgaagcca	tgatcttgcc	6780
actgcactcc	agtctgggca	acacagcaag	atactgtgtc	aaaaaatttt	tttttgataa	6840
aaaataaaaag	agttacatga	cattcagaga	ccatccaaaa	aacctgcggg	ttcccggtctg	6900
ggctcagtg	ctcatgcctg	taatcccagc	actttgggag	gccaaagtgg	gggatcact	6960
tgaggtcagg	agtttgagac	cagcctggac	aacatgggtga	aaccccatct	ctactaaaaa	7020
tacaaaaaat	tagccaggca	tgggtggtgga	tacctgtaat	cgcagctact	caggagaggg	7080
cgctggagaa	tcacttgaac	tcattggtgcg	caggttgacg	ggagccaaga	tcgcaccatt	7140
gtgctccagc	ctgggcaaca	agagcaaaac	tccatctcaa	aaaaaataaa	gaacctgcga	7200
gtgagttccc	acacgttttc	ctgatgggct	gtctgtttcc	taggagtctc	tcgctcatag	7260
aaaaggcaca	aactgaaaga	ggaagcagat	cccattgctg	tggaaagtccc	attgttagga	7320
agctctgctt	ttctggagtt	caaattcgca	ttcatgacgc	tttaaactgt	cagagctggg	7380
tgggtcctcc	tacaacaaaa	tcgtttgctc	tctctctcct	agttaacagg	ctttcaaata	7440
ttagaagatc	aatgtttctga	ccccattaaa	atttctcttt	tgtggaatga	aaagctctga	7500
tttaacccat	cttcaagcct	ggtttgatgg	aggaataggg	gctgagtcac	ctgcatttcc	7560
cctccctgca	caaagtcctg	ggcccagatc	tgggtctgt	ctctgctgag	gggtgggtga	7620
accaggaagc	acctccctct	acatctcctt	gatgaatggg	tataatggtt	gccatggaac	7680
tggggcttgt	ttgatgacct	ggggctgggt	gggcctctga	gagcctttat	agctgattgc	7740
cttttgggag	agggcagggtg	ggagccccac	cctgtcttat	ggtcacccc	aaaggtgcat	7800
gggcaggcag	gtgctgggga	atcggtact	cccagagct	tggcgtggcc	atccctgtgg	7860
cccctctggg	agtctggagc	ccattccctc	acactggtag	tctctgcagc	tggggacatc	7920
tgcactagga	agacaggaca	cggcatggaa	gctggcctct	gcccagaagc	catgacattc	7980
tggtcaccag	cctgatgcta	taaaacgagt	gtcacggccg	ggcatgggtg	ctcacacctg	8040
taatcccagc	acttttaggag	gccaaggcgg	gtggatcatg	aggtctggag	ttcgagacca	8100

gcctggccaa	catggcgaaa	tcccgtctct	actaaaaata	agaacattag	ccaggtgtgg	8160
tggcacatac	ctgtagtcct	agctcctctg	gaggctgagg	caggagaatc	acttaaacc	8220
aggaggcgga	gattgcagtg	agccgagacc	acggcattgg	actccaggct	gggcaacaga	8280
gcacgactcc	gtctcaaaaa	caaaaaaaaa	cgagtgtcac	ctggggctac	ttggccagac	8340
acagagagca	aggagacatc	cctattatct	gtcaaaaaata	attgttgggg	ctgagcacag	8400
tggctcatgc	ctgtaatctc	agcacttttg	gaggctcgag	caggaggact	tgaggcctag	8460
agtttgagac	cagcctgggc	aacatagcga	gcaccccatc	tccagaaaaa	atttaaaaaat	8520
tggctgggcg	cagtggctca	tgcctgtaat	cccagcactt	tgggaggccg	agggggatgg	8580
gtcatttgag	gtcaggagtt	tgagaccagc	ctggccaaca	tggtgaaacc	ccatctctac	8640
taaaaataca	aaaattagcc	gggcatgggt	gtgggcacct	gtaatcctag	ctacttgga	8700
ggctgaggca	ggagaatcgc	ttgaaccag	gaggcgagg	ttgtagttag	ctaggatcat	8760
gccattgtac	tccagcctgg	acagcaaagc	tagactccat	ctcaaaaaaa	aaaaaaagta	8820
aaaaatttaa	aaattagatg	ggcatgggtg	catgtgcctg	taatccaggt	actaaggaag	8880
ctgaggtagg	aggatgactt	gagtctagga	gttcgaggct	gcagttagct	ctgatcgac	8940
cactgcactc	cagcctgagt	gacacagcaa	gaccctgctt	caaaaaaaaa	aaaaaa	8996

<210> 2016
 <211> 2959
 <212> DNA
 <213> Homo sapiens

<400> 2016						
gaggaagaga	aggtcactac	catcatggag	atggcttcca	agatgaaaga	cacaggtaga	60
ctccaagccc	ctgaagagca	ggaaaatact	ggaggttgaa	caccccctac	tacccacaa	120
aaggtcaggt	tgggttctga	ccacctcagg	tgtgccacc	tagaggagaa	ggcaagctm	180
agaagaaatg	ttaatgggct	ggtacttggt	agcaaggcta	gcttaaaggc	ttcctggcct	240
gatatgtatg	ggtaccatta	ataagtgttt	attatgtgcc	aggcactgtt	atgaatgctt	300
tatatacatt	atctcactga	atcccacaga	acagctttat	gaggatgata	ctattgtttg	360
tcctctttta	caaatgggga	aactgagttt	ttgggggttt	aaaaaccta	ccaagttatt	420
aggaagtcat	gaagctggga	ctggaacccg	ggtttgtctg	actctagagc	ccacgatctt	480
aatgctacct	cccactgcca	tgagtctggg	ccctagacat	tgcctgcacc	ctccacagcc	540
aagtgatcct	tctctctctc	ctcccaaagg	gttcatcggt	tttgtgtgtc	tttgctggt	600
gtcatgcctc	atcctcatct	ttgtcattgc	cccacgttac	gggcaaagga	atatacctcat	660
ctacatcatc	atctgctctg	tgatcggggc	cttctgtgct	gctgctgtca	aggggtggg	720
catcacatc	aagaacttct	tccaggggct	gccagttgtc	cggcaccgcg	tcccctacat	780
cctgtccctc	atcctggpac	tgtccctcag	cactcaggtc	aacttcctca	acagagcact	840
ggacattttc	aacacttccc	tgggtgttccc	catctactac	gtgttcttca	ccacgggtgt	900
cgttacctcg	tccatcatcc	tcttcaagga	gtggtacagc	atgtctgctg	tggacattgc	960
aagcaccctc	ctcgggctag	tcacatcat	cttggcggtg	tcatgctga	tgggttcaaa	1020
gacctggaca	tcagctgcgc	cagcttgccc	cacatgcaca	aaaaccacc	cccttctccc	1080
gccccggaac	ccactgttat	tagactggaa	gacaagaacg	tccttggtga	caatatagaa	1140
cttgccagca	cctcatcacc	agaagagaaa	cccaaagtat	ttataatcca	ttcctgaagc	1200
ttggaatatg	tgagttagag	gatgagtccg	atggtacagc	ctgccctccc	aatttcaaaa	1260
ccacctgggt	attttccagt	gcaactgtta	ccaatgggct	ctcttttctt	gagaagttca	1320
tttatacctc	atcactgttt	ccaggagaaa	aatctttacc	caaatagcaa	tgggtggcaga	1380
acttctctgga	aacagattca	gtgaccaa	atcccaagttt	aetcagtg	ctgcaggttc	1440
cctggacctt	ccttctcatt	cattctttcg	gtgccatctc	tatgccgttg	ggaagaagat	1500
ggagtctgac	ccactgaatg	tagcacagtc	caaggacttc	tctaagatat	tggtcattgg	1560
aagttccttc	acaccaattc	tcctcctgag	acggaatctc	cgttggtgtt	gttggtgttg	1620
ttttctagcc	caaggatgac	atagagctgg	ctcccagagg	cccacagagc	aattggccat	1680
gcctccctat	ccagagctga	caggagacaca	accagtgtaa	aataatcctgt	tgctttgtc	1740
acttctctct	tggaggcaga	agcaagacct	cagctgacct	tcttactgtg	aaagccactt	1800
gatgtctcag	ggaaaaattt	caaccagctc	attcccagag	cactccagcc	tggcagtcag	1860
cacctcgcca	tccacccagt	ccatcccacc	atcaccctt	ccccctctac	ttacatccta	1920
aggagtcggg	cactgagaca	taaaggcagt	aatcgagaa	ctggaaacaa	aacaataata	1980
gagccacagc	caaactctgg	tggccaaacc	cagtggtgca	ttttgtctta	ctctgaaaga	2040
agaacagcaa	attcactgct	tcaaagtggc	ctggctgcca	agctagaatt	tggcagaacg	2100

cactttacta	ttcctcaagg	agtcaaccaa	cctatgatct	ggggagggtgg	gaagaggatg	2160
aggagcaaag	ttgggatttg	gcagaaggca	gtcccagggt	ctctgggatac	taggggctaa	2220
cttttgtgtt	gactctggtg	ctcatctggg	acttaggag	aaacgagctc	aggggtaatt	2280
tctgggttgc	agccttaaag	gcttggacag	ctgtgaatct	caatggccaa	ctggagggtgc	2340
agacttgga	tgggggtgcat	tctagctgtt	gaccagattg	ctaccgagtc	ccctcctcca	2400
ctgatgagct	gcccacactg	ggaagcagca	tgccctgact	gttccaacac	cacctgctat	2460
ggggagtacc	tttgggtccc	tcacatttgg	ccagaggcat	acaaaaaac	agagcagctg	2520
gagagggaga	taattactat	tccttccctt	cctatctcct	ttctagccac	aagagtgtgg	2580
gggttgga	agaaccatta	gaaaggaaa	ttagtgggct	ggtgtatctg	gaaagaggga	2640
agacttgatc	ctcagccccg	aggttggg	agggcctccc	ctgtgtgact	ctacctgcac	2700
tctgtgttta	tatcctgtgc	cctaagtggg	ccaagcccag	gtaaattcct	gctggccttg	2760
gaactccaag	gtttggctga	ccagcagact	ggctccctga	ctcttcagcc	tcaaatcccc	2820
agtttttgat	gaatgtggat	ttctgtctgt	aattaaaagc	aatgcaacaa	gttggcttt	2880
gagaatggca	gtaaactgag	ggccctaaga	gtgtgggtctg	cagggtcaag	aataaagatt	2940
acagattata	tttacttga					2959

<210> 2017

<211> 2406

<212> DNA

<213> Homo sapiens

<400> 2017

gtaaaagtgg	aggatatgag	tcttgtgggg	acacagagtt	gaggcatgag	ctattagtca	60
gagccgtaag	gctgcctgca	ggagaagaac	tttggatgga	gttttgaagg	aagtgaggaa	120
aagatctgaa	ttaacgtatt	aacacataaa	gcttgtcatc	tgaacaggac	tataagcatc	180
tcgagggtaa	gaacgtgcct	tttctttctt	acacattccc	agaagaccca	catctcat	240
tgggtctctc	gtaacagtat	ttactaagca	cttgaataac	tggacatggg	caccatgttg	300
ctaagttgat	taaaggttgg	tcttccactc	tgccactggc	cacagcacia	agtgaataca	360
gatgtcacia	gcaccttgta	gatctgtccc	ttttttcttc	tgatgttcac	cctccttttg	420
agctctttct	ttctccaaca	ttgcttacia	aataatcttt	atgcatctga	gaggagcaa	480
atattcagta	actttctgca	gctgtcctca	ctaaagagga	gaatctgttg	aatgccactg	540
gaaatgtaag	gatctcttgt	gacagtaaca	tctcaagggg	aaactagtgg	ttaaattggt	600
aattctttga	gtctgaaact	tttttcattt	gcagtgcaga	taagtgcctg	atcttgcagt	660
atcacgtttc	tgacttcttt	gttctggctt	catttttttt	ttcccaaaat	gccattttca	720
tttgttctta	gagttcagaa	catgtcaaa	agcttcttta	agcagtaggt	ggttttacag	780
agcccacaga	gaaggaaaac	taaatatcat	cccggatgca	gtccactacg	atcgtggagg	840
agtcagatta	ctctccgggc	tttgcctgtg	ctgcttgtga	aacaggaaa	ggagaactga	900
ggcaatgagt	cacctcactt	gggcccacaa	caccacctac	gttgaatatg	gagaaaatgt	960
gaagcaagag	tttcttttta	tacataatca	ccatttgtac	ataatcacca	ttttctccat	1020
ggttctttat	caattcagtg	catcttaaa	gatggtttgt	ggatcatga	catagcagaa	1080
aaatccaggt	actatcagtc	ttgcctgttt	ctaccctaact	ctttcattta	aactctcact	1140
agaatctata	ggaactgtta	gcatcaattt	taataagttg	tcaactaagt	gattagtggg	1200
atattattgt	tatttttgac	aaaataatgg	aatcatcaaa	ttttgaagtt	gagaagtaaa	1260
gtaaaaattt	gtgccaacc	ccaaatgtag	acaagggtcat	attataaaca	ttaatgtctg	1320
cccaaactgc	caatgcattg	cgtagaactg	aggttagcag	gttaccattg	atttcctcta	1380
cttatgcttt	aagagggttg	cattggtaag	cogctacact	ttcttgggtca	atgaggcaga	1440
aacccttttg	caaaaactctc	aactgatgaa	aagattagt	agaatgactc	taggaactgt	1500
tttctaagga	tctgactcat	tgattccttt	ttttggtagg	gttctctggg	ccaagttagt	1560
tcgagtattt	atcattttaa	ttaggaaatt	accatcacca	tcatcatgta	cattcataaa	1620
tcaaagcaag	attagagaag	gaatatgggt	gatcacagag	caactcagaa	agacgacagc	1680
aacaactagg	aatgaaaca	ccatgggttg	atctcaggaa	ccctacccag	cagataggaa	1740
ttaccatagc	tcctaaaatt	ccatctgggt	ggttgatgga	gcctcaatta	atctgacacc	1800
atagcccatg	ctcccctctt	gctacctgct	gaagtttagca	gggaaaagtc	aaagagggtg	1860
ctgtcagttg	ggtcaattct	tagggatcat	aggaaccac	cctccattgc	actgactctt	1920
tcccacaaa	tgggctagag	atagcagctc	tccttatgta	tttaagaaa	aatggcctaa	1980
aaatacaatt	cacattttat	tctgggtatat	accattttga	cagtgtttca	caatgtagggt	2040
aatatgaatg	ggagtattta	aacacaatcc	tgtttaatat	tcttagccag	tacttattaa	2000

atgcctacca	agcctggcat	tgttctagag	acctcaaaat	acacctttaa	aaacatatatt	2160
tattgacagt	tgtataaatg	aagaaaacaa	gtctcagaaa	attaaagtga	cttgcacaga	2220
tacacaagct	agaaagtaat	aaaactgaat	tttgaaccca	ggtttgtcag	actctaaagt	2280
ccatgatttt	ctgctccatg	tggccaacc	agttagaaag	gttataaaaa	atcttaacag	2340
tttttcagcc	cttctcacac	ttagcttttag	gattaaaaagt	attggtcatg	atttgcaaaa	2400
aaaaaa						2406

<210> 2018
 <211> 718
 <212> DNA
 <213> Homo sapiens

<400> 2018						
cctctatatt	agagagaaga	tttacaaacg	ttggggaaaa	aatggaaatt	gagactgact	60
cctaaggaaa	catctgttca	ctcactcagc	aaacatttag	cccactctgc	taatgctagg	120
cactgtgcta	gatatttgga	gagacactgg	agaaaactta	aggcccctag	tcttgtggct	180
cttacattct	agagagggat	tataatgac	ggcgtagtta	ttaaaaaaat	acagatgatg	240
atttcaagcc	ttataagagc	aaagaagaaa	agtgaaccaa	gttaatgtaa	tggagagtat	300
tggagtaggc	gaggctgctt	tagatcagag	agtctgggtg	gacttgatgg	aggaggtcat	360
ggatagcctt	gcagctggta	gacctgtggg	caacattaac	agcagatagg	acaagggt	420
taggggctaa	ctgagcattc	acctttgtct	tctttttccc	ctcggttatg	agtgtgacaa	480
ggcggaacat	ccaagggata	tgttgacaggt	gtcttaagag	tcaggtaaaa	ggcaagatga	540
ttcattatat	ctgttctttt	tgtgataccc	atgtaactac	ctataagctt	caaagtgaag	600
taaacattac	ctcttgtacc	ttagcccgtc	tctcattctt	cattacaaat	ttaagaaggc	660
agttattaat	gtgaatagtc	attcttcttt	tcagcagtcg	caactttaaa	aaaaaaaa	718

<210> 2019
 <211> 351
 <212> DNA
 <213> Homo sapiens

<400> 2019						
gtaaaaaaca	atatgtgaag	cctttatttc	aactaggtaa	aataaggaag	gcttcaaaa	60
ggagatgaat	gacatttcag	ctgagcccta	aagaatgaat	aggattctaa	tagaacagct	120
gggggcaggc	gtggtggctc	acacctgtaa	tcccagcact	ttgggaggcc	gaggcaggca	180
gatcacctta	ggtcaggagt	tcgagaccag	cctggccacc	atgcaaaagc	ccgtctctac	240
taaaaataca	aaaatttagc	aggcgtgggt	gcacatgcct	gtaatcccag	ctacttgagg	300
gctgaggcag	gagaatcact	tgaaccacag	agggttgaggt	ttcagtgagc	c	351

<210> 2020
 <211> 1365
 <212> DNA
 <213> Homo sapiens

<400> 2020						
cagcatcagc	agtgtgatgg	tacaccaaga	aggggctggt	gatataaatt	ttttaaaat	60
attggtatag	ttaaataactt	atatttttaa	atattggtgt	gttttttggg	gctataaatt	120
actaacttgt	gtgttcctaa	aatcaagttg	aaactaggat	aattgtctag	ttcttgcttt	180
gataagaacg	cagtagttct	gatgcttggt	tccatgtgta	tgggtctggt	attcttgcaa	240
gtgggtaagc	aatgcatagc	tttttttata	ctgagagcac	tagaaggcca	aagcatctca	300
aaaccatggg	ttctgggtat	gcataatttt	tggaaaggca	cgataagcaa	atctcacagt	360
ctggctggtc	agcagctgca	gggataagga	gactaattgc	caaggccatg	caaatgcaaa	420
gaggaagggtg	aggaggattc	ccagatgtga	tcatagcttg	caaagagggt	catctcatgg	480
ggccagaatt	cgtgcatgcc	cacacctaca	aagctgagaa	ctggtagtgg	tcatgtgtcc	540
gcttcaagca	atgcatgtat	tcacagccgc	cagcatcaag	aggggccatc	ttttgatagg	600
atgacacatg	catgttcaaa	catattttta	aagattaggg	agaaaagaat	actgtgaaca	660
aatagaacc	aattatgagc	aaattcacga	attcgggttat	gtactattgt	ggctggcaaa	720

agccacttaa	actaggctct	ctagcctgat	tttcagccat	cattaccct	cactaagaat	780
ccttgtaaaa	tttcttccgt	aaaagttaat	tacactcatc	accactgttt	gctaattgga	840
gcaaaccct	agccaatatt	ttttagaata	atatggttgg	gataactttt	ttttttttt	900
tttgctaaat	gaatgcatga	ttatcttata	caataaaaagt	ataacacaaa	atactgtttt	960
aagatagtcg	ctgggactct	ccttaccctt	gaagtgtccc	cctttccctc	ctccacatcc	1020
agtcaaccgc	aggttcctcc	cagggtttact	atctgacatg	ttttagctct	cttccttctt	1080
ttccattcct	ctacaacttc	tctagttctg	gctttcattg	tttctcaacc	aaaacagtct	1140
ccccttctct	ctcctccatt	cttgcgctcct	tccaaaacat	cctctccacc	ctgccagagc	1200
agctcacctt	agtcacagtc	tgactgcaac	tgcatgtgct	tatcaatcct	ctcattttctc	1260
ctcatcacct	ataacagtgc	ttttgacgct	gcaadtgtg	agccatttctg	cgggttagaa	1320
aataagtttc	atgggttgta	accagtagtt	taaaaaaaaa	aaaaa		1365

<210> 2021
 <211> 13712
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (28)..(28)
 <223> n equals a,t,g, or c

<400> 2021						
aaaggtcagc	aactgtaatc	tgtatcgnet	tggaaaaaag	aagggactac	ccagccgcat	60
ggtggtgtca	atatttgatc	cccctgtgaa	ttggcttctc	cctggttatg	tagtaaatca	120
agacaaaagc	aacacagata	aatgggaaaa	agatgaaatg	gtaagtttgt	gtgtgtgtgt	180
gtgtgtgtgt	gtgtgtgtgt	gtgtgtgttaa	ctggagggat	ttacttttctg	gtgagccaaa	240
taatttgttt	tattaatttt	ttgtttcatt	ttcttggat	gtttataata	gagtagatat	300
ttgatataat	taattaattc	ctttaattac	actgtctttt	cactgaattc	agaaatagta	360
ttataatttt	gatggaggca	aattttctatt	tttattattt	cttttccaaa	ggcataagag	420
tatgtgatgt	tttgactttg	agttttgtctc	ttctttaaaa	aaatttcaact	ttgctgttat	480
tacaatttat	cctagatcct	tagctctgtt	cagtgaatg	acttttcagt	gacctgtgat	540
ctccagctcg	tctgtgaaat	aattaatttc	agtaaatct	tgcttttgta	gctcaggggt	600
ttcccagtc	ggactcctgt	gaacttaaaa	aaaaaaaaatc	atccataaag	attgttattt	660
tctggaaata	atttaaatct	tgccagtgc	ttaagaagac	tccaaatata	agcaacagcc	720
acttcatttt	gtcttgtctt	gaaggccacc	agagggcact	tgggagggcc	tccaaactgc	780
aggaaccagc	gcagtgggtg	ttgactggga	gagttctagt	gcctcttccg	aagtttaagg	840
caatgcttca	gacagtttca	tttcttggag	atttattttg	cattaaaaat	aaattggctc	900
attgttactt	cattttttacc	tcaggccaac	aatgataata	ccgttttttt	ctttcaaagg	960
ttatattttt	aaatatccat	tttctccatg	tcttctttgt	gatgcatgta	tcctatatat	1020
ctgcctttaa	gtattttccag	gtagcatgtt	cagtgcact	atttggattt	ttacctattt	1080
attgaggatg	tttttaactc	atgtagtatt	tgtcttatta	cagaattaga	acttatttgg	1140
aaaagcatta	agggaaatatt	ttaatgcaag	ttaggtccga	acaattattt	gttattaatt	1200
tagaaatatg	tagaacctta	gaggaaaatg	tatagatttt	caactttagaa	atgggtatgg	1260
tatttctatg	aataacattc	cagtaacagt	catctcctt	tgtaataacc	gtttcataat	1320
gtttttggct	cttttttaaaa	acttgtagca	tgaagggtgac	attggcatgt	cattgatttt	1380
ttttttaaga	tacaacacaa	agttcaattt	atttttctta	atgtttctga	tggcactttg	1440
gttattggaa	ttcattagaa	atactgttca	gattttttatt	tagtaagtta	cttttattga	1500
aatataggcc	cttgcatatat	attgaaaaga	tacactgtgg	ttttggctgg	ttgcattgcc	1560
attctcccta	ccttgctctg	gcccttcagc	aaatgggctt	aagtggaaac	ctttgcatgc	1620
taaaacgcct	cttaatagac	gagagtatca	aagttgactt	gaatgtata	gaaaaggatt	1680
tcatgtggct	gttttttctt	aaaaggcttg	aagtgtctct	gaaaaacatt	ttatgagaca	1740
gaacccact	cttttgtaga	tgaagcatct	gaaaccagga	ggcactaaaa	ggctttgccc	1800
aggatcacac	agtttgtgat	aaaagtcagc	cctttgtgat	ttttgtgctc	tgccactttt	1860
ggcttatggg	ggcacctttc	taaagataca	gaaggttttt	ttcaataaaa	aaaaaatatt	1920
ctctgatttt	ttaaaaatcg	cagtttggcc	ctcttttctt	taaggaccaa	tcaaaaacat	1980
cttcatgttg	ccttggaag	tctaagattg	ttagcaggaa	atgttccttg	aggctctgccg	2040

ctacagttgc	ttttggtggt	ccttattctt	gaaaagggtgt	ttctttctta	attaaaaaaa	2100
tgaaaagata	aatagttaga	gatatggctt	ggcttactgc	tatttctttt	cagacaaatg	2160
tagtgtttat	atcttgagtc	tagttttaaa	tatttgtagt	atttataaaa	tgcttgaaag	2220
ttgcaacttt	tttttgtag	aacactggaa	agttgttaca	atcaacattg	atgcacaccc	2280
ttcgtcttcc	cccttcacaa	gttttttgg	tttttaaaaa	cttgcataac	agaaatttgg	2340
catctttcta	ggattgcaaa	gaagttacat	cattactgaa	atctagccca	ttattaagg	2400
tgctactcac	aaataagctt	ttgccaaga	aattggaatt	agcaaagatc	ttttgacaga	2460
aattggattg	ttgtgtttca	tgtagtcta	aatttctt	catttttgtc	agttatgcta	2520
taatctgttc	ccctgattac	cgtagttcag	agtggaggga	aaaaacgtaa	cttctcaa	2580
tcatagctta	gtgcagtgat	cacttttatt	ttttaaggaa	agcagtgtag	ttttttgtg	2640
gcaagtatac	tttgaagtgg	aaatagggac	aaaaagcttt	attataaaat	cctattgtac	2700
attttaaaaa	atgattttat	ctgtttttat	attatattct	taattgcaaa	ggtaattgct	2760
ttctacatct	ggaatttcgt	tttattagtt	tgaaaatctt	tttgaaaatc	aaattaccac	2820
attttcaa	tttgcagca	aaattgaaga	tctgtgtgat	cagcatatga	gtgctttcat	2880
tgtgtgtcct	accagagtta	gacgactt	ttgaagtttt	gcattgtgga	cattaatttt	2940
aactttatat	ccatgttcaa	agtccttaac	ttaaagcttc	atactggata	aagggtcatt	3000
tataacttag	aaaacgaaca	ttcaaagaac	atgttttact	ttgtttatat	gattaaataa	3060
cttattttat	gttaattgaa	aacaaatggc	catgatttta	aagttgcctt	ttagtatttg	3120
tggttgctcat	ttgaaattat	ccataacct	tgcttttatt	gagtttcaaa	ccctttttaa	3180
aacagcagct	atgtttcccc	tccttcccca	ttccccctcg	tttcagacaa	aagactgcat	3240
gctggcgaat	ggcaaactgg	atgaggatta	cgaggaggag	gatgaggagg	aggagagcct	3300
gatgtggagg	gctccgaagg	aagggtga	ctatgaagat	gatttcctgg	agtatgatca	3360
ggaacatatc	agatttatag	ataatatgtt	aatgggggtca	ggagcttttg	taaagaaaat	3420
ctctctttct	cccttttcaa	ccactgattc	tgcatatgaa	tggaataatgc	ccaaaaaatc	3480
ctccttaggt	agtatgcat	tttcatcaga	ttttgaggat	tttgactaca	gctttggga	3540
tgcaatgtgc	tatctggatc	ctagcaaagc	tggtgaagaa	gatgactttg	tggtggggtt	3600
ctggaatcca	tcagaagaaa	actgtggtgt	tgacacggga	aagcagcca	tttcttacga	3660
cttgacact	gagcagtgt	ttgctgacaa	aagcatagcg	gactgtgtgg	aagccctgct	3720
gggctgctat	ttaaccagt	gtggggagag	ggctgctcag	cttttctct	gttactggg	3780
gctgaagggtg	ctcccggtaa	ttaaaaggac	tgatcgggaa	aaggccctgt	gccctactcg	3840
ggagaatttc	aacagccaac	aaaagaacct	ttcagtgagc	tgtgctgctg	cttctgtggc	3900
cagttcacgc	tcttctgtat	tgaaagactc	ggaatatggt	tgtttgaag	ttccaccaag	3960
atgtatgttt	gatcatccag	atgcagataa	aacactgaat	caccttatat	cggggtttga	4020
aaattttgaa	aagaaaatca	actacagatt	caagaataag	gcttaccttc	tccaggcttt	4080
tacacatgcc	tcctaccact	acaatactat	cactggtaag	gagcccacga	ccagacttca	4140
tttctgggaa	aatgagactt	tgtgttgatc	tcacgtgttt	ggccttgtaa	aagtgatcta	4200
tgcatgtaca	gtgttcatgc	ttaatattca	agggatggg	cggggaacaa	aaggaataga	4260
aagaattctt	ttccttggtt	tttggggagc	acgtattgct	ttataacttt	ggtgtgtggg	4320
agtatggcta	tcatataccc	tcatcagtgt	cattttatat	ctgctaatt	agagaaattt	4380
taaccttagt	attttgatgt	gttttcccca	ttttatcctc	cgcaaataatc	tttctcttgc	4440
ccattcagtg	ctgcttttgg	tttttgattt	agttgtatat	tctggatgta	tttccacagc	4500
cttttatgtt	tcttcttgga	caaaaagacc	cctcctttag	ggtcttttta	aagatggata	4560
gattaaaaga	ttaaaagcaa	tgatttcaca	agaagggtgc	gtggcccttg	ctgtgactct	4620
gctgtcatct	tctacttctc	actgtgctct	gtatttgccc	ctcttttaat	agactgtcaa	4680
cccattagat	tagaagggag	aacaagcccc	tcacacccaa	atcagcttca	ggctgtgaaa	4740
cacagctgaa	gtttacattt	caatttctgt	atcagaaaa	taagtgcctg	aattcagaac	4800
accaaagcaa	agtataaagt	ttgtagttaa	tataataaaa	gcagcgtagg	ttaagggtgat	4860
cagcaaaatg	taaaaaccaa	aaagtgaata	actatctgac	tctggactgg	aaagactgat	4920
gaaactaaag	cctaattttc	gttatggagg	aaaaatgata	cgtggctttc	gactacattc	4980
tgctggaagt	tccgagacct	gggttctcgc	ctagcagtc	ctgcttctta	attccttgct	5040
tattctggga	caagtcacca	tcggtccctg	cctcagtttc	ctcagctgga	tatattattt	5100
taatcactgt	gagaaaatag	aggtgttgat	ttaacattga	tcattttcac	attttgacaa	5160
ccagtttacc	tgcttttgct	ccctttcaca	adcttcttt	ctcaatctct	tggtttgtgg	5220
taaattcatt	tctataatag	ctcaagttaa	gaagagggtc	ttcttttctt	gtcatcctgt	5280
gtaacaaaaa	tagcccagga	atagtggaga	atggtatcac	ttatgcacag	attccagagt	5340
gtgaatgaga	cttttagcgt	ggcagcacag	tgtagccaca	tggagagggtg	tggtcgggcc	5400
tggtttcaact	taagtgtatga	tgtgtgaggg	agactcgaga	ggaaggcccc	agcacctgcc	5460

cagacagcac	agtgccagag	aaaagcattc	agtgatcatg	atagcacctg	tgagggtttt	5520
tttttccttc	ttaacaagcg	ttagtctttt	gaccacttga	agatttttatg	accccgattt	5580
atataagaaa	tgtacttaat	ttgtcattaa	aatttagttt	ccagaggctt	tttagtatga	5640
tatgtcagat	atcctttttg	aagaatatat	gtatgaaaat	gattgtaaaat	acaaatcttc	5700
ttcggatttg	gggatcagtt	gctatgtggg	gatagtgtaa	atgcttctgc	acaagcttac	5760
ggttccactt	cggatccctt	cagattgtta	ccagcgctta	gaattcctgg	gagatgcagt	5820
tttgactac	ctcataacca	agcaccttta	tgaagaccg	cggcagcact	ccccgggggt	5880
cctgacagac	ctgcggtctg	ccctgggtcaa	caacaccatc	tttgcctcgc	tggtgtgaaa	5940
gtacgactac	cacaagtact	tcaaagctgt	ctctcctgag	ctcttccatg	tcattgatga	6000
ctttgtgcag	tttcagcttg	agaagaatga	aatgcaagga	atggattctg	aggtttagtgc	6060
tggtcaaaac	gatgttgaaa	aaagtggctc	aactaggagt	ctctgtagtt	tcagagttct	6120
gacggcatag	tggtctaaaag	ggacagcagg	aggtcagggg	tgtgggaccc	agtgtgctgt	6180
gttctgtggg	agcacgagtg	aactgcagtt	tgcaggtagg	cctcttgaac	tgtctgccc	6240
ccactgtggg	ctgtgtggtc	attcaggtga	agagaaggaa	ccaggccttt	cagttaggta	6300
cccttcccac	gccttcatga	gggcttccag	cattgaggca	tgccaaagaa	gtggcctcca	6360
ctgccggacc	ccaaggcagg	tttagcttta	gtaaaagccc	agtgtagctt	atccttcctt	6420
ttttaaatgg	atcagaaata	tttgctaata	tctcagggaa	gcatacataaa	tatacattct	6480
gcttctactt	gaagtgggaa	aatctaattt	aaaaaacaaa	cttctaattt	tttgaccatt	6540
ggaatttggt	aggcttctat	tgtaagttca	gccaaaggct	gtctgggtgac	agagctaatt	6600
ctaagtgtgt	tgtgagctat	ttcgaatttt	tgtaggaaag	gatattgtt	agatctttcc	6660
agtctcttaa	cattcatctg	catacctgtg	tccccagag	agactctcat	ttcctcctct	6720
tcccatttca	tttcttttga	ttttcttatt	tttgtagatt	ttcttataag	gagtcaggaa	6780
atacaacctt	aatactagta	gctgttttag	ttgtcattgc	tttaatttgt	accttcccct	6840
ttttaattgc	accaaaccct	tgttggggag	tagtgacttt	ctatgacaaa	aattaagagt	6900
aggtttgaag	tctagccgca	gagccgagtt	cagccctgc	cagctgccc	gatgtgcact	6960
ggaggagtca	gtaggccctg	ctcttacttt	aacgcgcctc	tgtgctcttg	tccaagatga	7020
acagcctgag	ctggagcgtg	gcaggctgtg	aggcgagaag	ggggaccag	ctcgtagact	7080
tccaagtgtt	acctagtctc	attcttttag	aatagctaag	cttgaaattt	gaggaattag	7140
ttaaaattag	atttaagctc	tctttggatg	ccagtggggc	atattggttt	tgttagtttt	7200
tgttcattct	tttcttccc	tttgtttata	taaacatatg	tatagaagtt	acaagaactg	7260
attggaaatg	tcatggctctg	gcatttctaa	cttactattt	gatcttaaga	aagtctcttt	7320
acctctctgg	gcctccgttt	cctcagctgt	aaaaagagag	aattaaaactt	ggtaagtttt	7380
aaaattcctt	tctatctcaa	aaccataaat	atgaacaata	agtctgtttt	tttaagtaat	7440
cagcagtaata	aatgtattat	atgtaacttt	gtatgtttaa	acaacctatt	agaaaattagt	7500
attttcccac	tttctcttta	tttttttcac	aaatgatttg	tgttgatttt	agaaaagtta	7560
gtacaagtaa	ataagaagaa	aattagttta	atltgcctga	ttatgctacc	tcggaaataa	7620
ccaatatata	cattttggga	ggaattgtgg	atgtgtatag	atataaacat	atctaaaatg	7680
taaaatggaa	ttctgttatg	tataggatac	tgccacctgt	tcttttcacg	tataatatat	7740
tgtggctgac	tttccgtgta	ttgatgggta	tcgtgatgct	cagggggccac	acgctagtca	7800
acacgtggct	gattgattta	aacgcttctt	tatggccgag	taattaagta	gtttttgggt	7860
aggatgttta	ataaccatgg	agggtataaa	tacgcttatg	tatctagtta	cctccttaaa	7920
ataagttctt	agagatgcaa	ttgctgcac	aaagaattgt	gaacttttca	aaggcttttg	7980
atgcatgatt	ttcttttatt	aatttgcata	catgctatgt	cagatactcg	gttatagtga	8040
acacatatct	agtggcttaa	tgaagaggga	acttggagga	aaaaatcttt	caaataataat	8100
ttccctattt	ccctacaaca	gcgatttctg	ctccccaag	cagcatacac	ccgtgccagc	8160
accagacca	ttagtactat	tgaatgcttg	ccaagcagct	agggagtaga	actgttttaa	8220
agtatagttc	tttgattacg	agtgaatttg	aatttttttc	atacttttat	tgactatttc	8280
taattctttg	ttaaggttgt	ttaaagttag	aagtaatctt	ttttctttgc	tggttatata	8340
gaataataaa	tggggtgggg	atattttttc	tttttttctt	gagaagtttg	aaaaactttt	8400
ttaaaaatat	aactattgtt	ttactattac	aatatagtag	gcataccata	aatggatttt	8460
ccccctttac	taaagaagta	acaaaagtca	tatatccaag	aaaagaaaact	acatcttggg	8520
actgcctgta	aaagtggcct	ttttgcttac	aagtcacttt	tccctctgta	atagcttagg	8580
agatctgagg	aggatgaaga	gaaagaagag	gatattgaag	ttccaaaggc	catgggggat	8640
atttttgagt	cgcttgctgg	tgccattttac	atggatagtg	ggatgtcact	ggagacagtc	8700
tggcaggtgt	actatcccat	gatgcggcca	ctaataagga	ttgttggctc	cctttagaaa	8760
gaaaaaaacc	cacaaaatta	aaaacaactt	cagagatatt	attcatatta	ttctttcatt	8820
ttgattgcag	aaaagttttc	tgcaaatgta	ccccgttccc	ctgtgcgaga	attgcttgaa	8880

atggaaccag	aaactgccaa	atntaggttaa	gcaaaaaaatg	tacatggaaaaaacattaac	8940
ttaaaaacat	caaaggggaa	aagttcacaa	agatatttga	aactaatgat tctgaaaaat	9000
atttacactg	tgggtgtgctg	ttgtcagatt	tctgttttga	atctgattga cttctctttt	9060
ttccttctgt	ttttatgaaa	taatgtctga	ataaagacta	gacggcagcc ctgtctgtcg	9120
ggggtatgca	atggcagtaa	gtcgtaacgc	gtgtttcctt	tgtgtgggtg cagcttatac	9180
atgggactcc	tggcctgaga	gtgcacacta	aatgctgatt	gacaatgata ataaatactt	9240
ctgacttcta	attcaagctg	tttggatttt	ttacagcccg	gctgagagaa cttacgacgg	9300
gaaggtcaga	gtcactgtgg	aagtagtagg	aaaggggaaa	tttaagggtg ttggtcgaag	9360
ttacaggatt	gccaaatctg	cagcagcaag	aagagccctc	cgaagcctca aagctaatac	9420
acctcaggtt	cccaatagct	gaaaccgctt	tttaaaattc	aaaacaagaa acaaaacaaa	9480
aaaaattaa	gggaaaaatta	tttaaatcgg	aaaggaagac	ttaaagttgt tagtgagtgg	9540
aatgaattga	aggcagaatt	taaagtttgg	ttgataacag	gatagataac agaataaaac	9600
atttaacata	tgtataaaat	tttggaacta	attgtagttt	tagttttttg cgcaaacaca	9660
atcttatctt	ctttcctcac	ttctgctttg	tttaaatcac	aagagtgcct taatgatgac	9720
atntagcaag	tgctcaaaat	aattgacagg	ttttgttttt	ttttttttga gtttatgtca	9780
gctttgctta	gtgttagaag	gccatggagc	ttaaacctcc	agcagtcctt aggatgatgt	9840
agattcttct	ccatctctcc	gtgtgtgcag	tagtgccagt	cctgcagtag ttgataagct	9900
gaatagaaag	ataaggtttt	cgagaggaga	agtgcggcaa	tgttgtcttt tctttccacg	9960
ttatactgtg	taaggtgatg	ttcccggctg	ctgttgcacc	tgatagtaag ggacagattt	10020
ttaatgaaca	ttggctggca	tgttggtgaa	tcacatttta	gttttctgat gccacatagt	10080
cttgcataaa	aaagggttct	tgccttaaaa	gtgaaacctt	catggatagt ctttaatctc	10140
tgatcttttt	ggaacaaact	gttttacatt	ccttcatttt	tattatgcat tagacgttga	10200
gacagcgtga	tacttacaac	tcactagtat	agttgttaact	tattacagga tcatactaaa	10260
atttctgtca	tatgtatact	gaagacattt	taaaaaccag	aatatgtagt ctacggatat	10320
tttttatcat	aaaaatgata	tttggctaaa	cacccatttt	tactaaagtc ctctgccag	10380
gtagttccca	ctgatggaaa	tgtttatggc	aaataatttt	gccttctagg ctgttgctct	10440
aacaaaataa	accttagaca	tatcacacct	aaaatatgct	gcagatttta taattgattg	10500
gttacttatt	taagaagcaa	aacacagcac	ctttaccctt	agtctcctca cataaatttc	10560
ttactatact	tttcataatg	ttgcatgc	atttcaccta	ccaaagctgt gctgttaatg	10620
ccgtgaaagt	ttaacgtttg	cgataaaactg	ccgtaatttt	gatacatctg tgatttaggt	10680
cattaattta	gataaaactag	ctcattattt	ccatcttttg	aaaaggcccc aaaaaaaaac	10740
ttcttttaggc	atatgcctaa	gtttctttta	ttagacttgt	aggcactctt cacttaaata	10800
cctcagttct	ctttttcttt	tgcattgcatt	tttccctgt	ttgggtgctat gtttatgtat	10860
tatgcttgaa	attttaattt	tttttttttt	gcaactgtaac	tataataacct cttaattttac	10920
cttttttaaaa	gctgtgggtc	agtcttgcac	tcccatcaac	ataccagtag aggtttgctg	10980
caatttgccc	cgtttaattat	gcttgaagtt	taagaaagct	gagcagaggt gtctcatatt	11040
tcccagcaca	tgattctgaa	cttgatgctt	cgtggaatgc	tgcatttata tgtaagtgc	11100
atttgaatac	tgctcttctt	gcttttatctg	catcatccac	ccacagagaa atgcctctgt	11160
gcgagtgcac	cgacagaaaa	ctgtcagctc	tgctttctaa	ggaaccctga gtggggggg	11220
tattaagctt	ctccagtgtt	ttttgttgtc	tccaacttta	aacttaaatt gagatctaaa	11280
ttattaaacg	agtttttgag	caaattaggt	gacttgtttt	aaaaatatat aattccgatt	11340
tggaacctta	gatgtctatt	tgatttttta	aaaaacctta	atgtaagata tgaccagtta	11400
aaacaaagca	attcttgat	tatataactg	taaaagtgtg	cagttaacaa ggctggatgt	11460
gaatttttatt	ctgagggtga	tttgtgatca	agtttaatac	caaactctctt aatattttata	11520
aactacctga	tgccaggagc	ttagggcttt	gcattgtgtc	taatacattg atcccagtg	11580
tacgggatcc	tcttgattcc	tggcaccaaa	atcagattgt	tttcacagt atgattccca	11640
gtgggagaaa	aatgcctcaa	tatatattga	accttaagaa	gagtattttt ttgttaatac	11700
taagatgttc	aaacttagac	atgattaggt	catacattct	caggggttca aatttccttc	11760
taccattcaa	atgttttatc	aacagcaaac	ttcagccgtt	tcactttttg ttggagaaaa	11820
atagtagatt	ttaatttgac	tcacagtttg	aagcattctg	tgatccctg gttactgagt	11880
taaaaaataa	aaaagtacga	gttagacata	tgaatgggtt	atgaacgctt ttgtgctgct	11940
gatttttaat	gctgtaaagt	tttctgtgtg	ttagcttggt	gaaatgtttt gcactgtgca	12000
attaaggaaa	aaaaaaatca	ctctatgttg	ccccacttta	gagcctgtg tgccaccctg	12060
tgttcctgtg	attgcaatgt	gagaccgaat	gtaatatgga	aaacctacca gtgggggtgtg	12120
gttgtgccct	gagcacgtgt	gtaaaaggac	ggggaggcgt	gtcttgaaaa agcaactgca	12180
gaaattcctt	atgatattg	tgtgcaagtt	agtttaacatg	aaccttcatt tgtaaatattt	12240
ttaaaatttc	ttttataata	tgttttccgc	agtcctaact	atgctgcggt ttataatagc	12300

tttttccctt	ctgttctgtt	catgtagcac	agataagcat	tgcacttgg	accatgcttt	12360
acctcatttc	aagaaaatat	gcttaacaga	gaggaaaaaa	atgtggtttg	gccttgctgc	12420
tgttttgatt	tatggaattt	gaaaaagata	attataatgc	ctgcaatgtg	tcatatactc	12480
gcacaactta	aataggtcat	ttttgtctgt	ggcattttta	ctgtttgtga	aagtatgaaa	12540
cagatttggt	aactgaactc	ttaattatgt	ttttaaaatg	tttgttatat	ttcttttctt	12600
ttttctttta	tattacgtga	agtgatgaaa	tttagaatga	cctctaacac	tcctgtaatt	12660
gtcttttaaa	atactgatat	ttttatttgt	taataatact	ttgccctcag	aaagattctg	12720
ataccctgcc	ttgacaacat	gaaacttgag	gctgcttttg	ttcatgaatc	caggtgttcc	12780
cccggcagtc	ggcttcttca	gtcgctccct	ggaggcaggt	gggcactgca	gaggatcact	12840
ggaatccaga	tcgagcgag	ttcatgcaca	aagccccgtt	gatttaaaat	attggatctt	12900
gctctgttag	ggtgtctaat	ccctttacac	aagattgaag	ccaccaaaact	gagaccttga	12960
tacctttttt	taactgcac	tgaaattatg	ttaagagtct	ttaacccatt	tgcattatct	13020
gcagaagaga	aactcatgtc	atgtttatta	cctatatggt	tgttttaatt	acatttgaat	13080
aatttatattt	ttccaaccac	tgattacttt	tcaggaattt	aattatttcc	agataaaattt	13140
ctttattttta	tattgtacat	gaaaagtfff	aaagatatgt	ttaagaccaa	gactattaaa	13200
atgattttta	aagtgtgttg	agacgccaat	agcaatatct	aggaaaattg	cattgagacc	13260
attgtattttt	ccactagcag	tgaaaatgat	ttttcacac	taacttgtaa	atatatttta	13320
atcattacttt	ctttttttct	agtcattttt	tatttgagaca	tcaaccacag	acaattttaa	13380
ttttatagat	gcactaagaa	ttcactgcag	cagcaggtta	catagcaaaa	atgcaaaggt	13440
gaacaggaag	taaatttctg	gcttttctgc	tgtaaatagt	gaaggaaaat	tactaaatc	13500
aagtaaaact	aatgcatatt	atgttgattga	caataaaata	tttaccatca	catgctgcag	13560
ctgtttttta	aggaacatga	tgctattcat	tcatacagta	atcatgctgc	agaaatttgc	13620
agtctgcacc	ttatggatca	caattacctt	tagttgtttt	ttttgtaata	attgtagcca	13680
agtaaatctc	caataaagtt	acgtctgtt	ca			13712

<210> 2022

<211> 19521

<212> DNA

<213> Homo sapiens

<400> 2022

cagaagggga	aagcgcttcc	tttaagcagt	gctgagaaga	ggaaagccaa	atgggaaagt	60
ctgcagaata	aacaggtaat	gagtttaattg	tactagcata	acttagtatt	tgttgagta	120
ttaaagatta	ttaaagataa	gtttgaattt	tatcttacca	agttaaatgc	atgattcggt	180
aatttttttag	aagttaccta	atcctcaa	tttgtttt	tttgttttaa	ttagtattat	240
gtgttgaaatg	ttatttgaat	gttctttttg	gtaagtattg	agagtttt	ttttatactt	300
ggcccattaa	tatatcaaa	aatcattctc	ataaatcctt	tgataaatcc	catttggcct	360
tagaggatta	tttttacaaa	tattttttta	aattaagttt	tactagcatt	tatgattttc	420
tttatccatt	agtgaattg	gtcttttttt	ttttcttttt	tgtgtgcgct	ttgtatttat	480
ctgtccatttt	ttccccttac	ttgaagatac	tggttccaga	actctgtgt	atacatccaa	540
ttccagcatc	actgtggaga	aaagctgttt	gtctccccag	catactttat	cgccttcact	600
gccttttgac	tgagaggag	ctaagagccc	agactgccag	cgatgctggc	gtgggagtca	660
gatcacttcc	tgcggtttt	aggtatgcct	gtgcagtcag	ccagaaagaa	cacagatcat	720
gagatcctgt	tgcaaaaaga	acagaattaa	gttaaaattg	tatataaaat	aattcttaaa	780
agagtaaaaa	gaaaataatg	gatatcttat	gtcttgtcaa	gtctcagagg	gagatgagaa	840
tctgagggtca	gaaataacca	ttactgctta	agccataaca	gttgaggtga	gaatgaaatt	900
gttctttgtt	actgcatcag	catttttcagt	ctgttttttt	tttaaaaat	ccaaatatat	960
gttaaaaagc	aatagcctta	gcatgttctt	tgtcttccatt	attttcttcc	cattagtata	1020
atctctgcat	tctaagaaaa	ctgttggtt	aaacactcac	attagtctct	gttatccaat	1080
tggcaatatc	aagactgttc	tagggattga	aggaatttta	aaatataata	ggaataacca	1140
caatatttat	tggttagttg	ctatagtgcc	aaacactagc	ttaaatgctg	taccctgtgt	1200
tagttagctc	atttaatcat	taagacagtg	ctatgagata	ggaattgtta	gcccttttct	1260
caggtgcaga	agctgaggca	cagagagttt	atgtaagttg	cccagaggtta	ctcagcgggt	1320
taaccagagt	gcctgggatt	ccaaccctg	aagctagtc	ccaggctcctg	caggatgcct	1380
gcaagcttcg	tgaccttctt	aactaccaca	cctagagtct	agggccagg	attaaagcag	1440
tagataaaac	catgtccac	tttataattt	acactgtaaa	ttaaaaattt	ggaaaacttg	1500
ttctatttcta	aagtttagga	gtacattttt	gggatctttg	tttttgtttt	taaattcaaa	1560

ttgctgttgc	tctcagccta	gctgttttga	agaatctgat	gtaaagttat	aaaaatgtct	1620
ttgcagatac	cctaacttag	acttcgggtg	gaaaaaatct	attgacagca	aatctttcat	1680
ctcaatctct	aactcctctt	cagctgaaaa	tgataattac	tgtaagcaca	gcacaattgt	1740
ccctgaaaat	gctgcacatc	aaggtgctaa	tgaacctcc	tctctagaaa	atcatgacca	1800
aatgtctgtg	aactgcagaa	cggtgtctag	cgagtcacct	ggtaagctcc	acgttgaagt	1860
ttcagcagat	cttacagcaa	ttaatgggtc	ttcttacaat	caaaatctcg	ccaatggcag	1920
ttatgattta	gctaacagag	acttttgcca	aggaaatcag	ctaaattact	acaagcagga	1980
aatacccggtg	caaccaacta	cctcatatct	cattcagaat	ttatacagtt	acgagaacca	2040
gccccagccc	agcgatgaat	gtactctcct	gagtaataaa	taccttgatg	gaaatgctaa	2100
caaatctacc	tcagatggaa	gtcctgtgat	ggcgtaatg	cctgggtacga	cagacactat	2160
tcaagtgtct	aagggcagga	tggatttga	gcagagccct	tctattgggt	actcctcaag	2220
gactcttggc	cccaatcctg	gacttattct	tcaggctttg	actctgtcaa	acgctagtga	2280
tggattttaac	ctggagcggc	ttgaaatgct	tggcgactcc	tttttaaagc	atgccatcac	2340
cacatatcta	ttttgcactt	accctgatgc	gcctgagggc	cgcttttcat	atatgagag	2400
caaaaaggta	agagatgatt	tttttatttt	gagcagttaa	ttattcagtg	tgcttgaaaag	2460
tggtttgcag	tggttgataa	tctcagagga	tgagaacgta	tcagtctcag	aaattgctac	2520
accggccaag	cacagctgct	cccttgttct	accagggccca	gcgaaagcct	gtggcagAAC	2580
tacctggcag	ttgatgagta	ttgctttaca	ccaatcccac	actcaggttt	tggggcttag	2640
ctgatctcca	cgtgccttac	tttttgattg	aaagtcagtt	caaaggaagc	tatgcaagtg	2700
tgtacacccc	ttgatcctga	gggggatatg	aagaaatgtg	cattgtagtc	agtcaaggag	2760
cttctgcttt	gttgagttaa	acatttattt	gagagggtag	gtcttggctt	aaaggcata	2820
cagacatgag	taagacacaa	gtcttgtgga	ggagctcatc	tccaaagttt	tggagagtgg	2880
agcggagaag	agtaacaagc	ttcacagagc	ttggctgctc	tccagtgtga	agaggggtgac	2940
accagagttc	tgagtaatta	acgctcgata	gctcagagaa	agggcgggct	cttaaactca	3000
gcatggacta	agacttaaga	aaaggaatga	aggtaaagata	ttcaagttat	gggggaaaaa	3060
tggaaaaaag	tctcacaagg	caacatgagc	ctcctggaca	aataccttag	aaagctgctg	3120
atcacttgca	gcactcagaa	ggaaggagca	tactgttga	atcaaggatg	gcattaatgg	3180
aggaggcaag	ttgacagtgc	ataagcaaag	tgaacagatg	gcagagatg	tcagcgtcag	3240
ggaagcagcc	gtggcagcag	tcagaagtgt	ggaaatacct	gagaaaaggc	ttgaaaaggc	3300
agctgggggtg	aagctgtatc	gtggaaggcc	ttgaatgctg	ggctaaggag	tttgcacgtg	3360
ttttgaatgt	tgtaggcact	gttgaaggaa	tttagagcaa	ggaactatta	atgttaataa	3420
agtggtagtt	taaaatgatt	aatctggtag	cagaatgtag	tgtgagttga	aaagcatatc	3480
caaaagataa	agaatgggag	agaactgagag	ttctggtaga	gaggaagggg	3540	
ctgaggtgag	tgagaatttc	agaagaaata	attttagcta	acaattttaa	agtgttact	3600
ctgcactact	ctaaaagata	accgtatacg	cacacacacg	acacacacc	cacatatata	3660
cacatatatg	catataaacc	taatttaatt	tttataattc	tgagaggtag	aaacttttat	3720
tttccccatt	ttataggtga	gaataggctg	gagaagttag	cttgcccaag	gtcacttggc	3780
aagtaagtgg	cagagcttgg	gtcgaatcca	gacagcctgg	ctttggagac	cttccccctc	3840
cccatcacac	taactgctcc	ggatagaacc	atcacaccag	gcagcacacc	aagcatttcc	3900
caagtgtca	ctcattcact	cttctctaag	cctctgggaa	agagacaaca	catccctgtt	3960
ttgcagatga	ggggactcac	acttagagag	tcgaatgggc	tcctgtcagg	tcacctaaact	4020
gttcatctgg	gagagtcagg	agtgtgtcca	aggcctcca	ggatgatctt	gaggtggact	4080
ggaggcgcag	tcataacaac	cacgtaaact	ggcaacttgg	gggcagtggc	agtagcaggg	4140
aggtagggag	aaatgtggga	agtccatgtt	agagttgaga	ttttagacct	catggaatat	4200
gaagtggaaa	tgttcagata	attgaggctg	taggattcag	atacggtttt	gtagagtagt	4260
cgccatacgg	aagctctgag	aatggatgag	atttccaaga	ggtggttgca	ggaagaaaag	4320
atcagagggt	tggacaagtg	tggcataggc	aataggatag	gatactctgt	tagacaagac	4380
agaggtgact	ttctattaca	aaactcgtcc	atttgtctgc	tcagaaacct	tctactcctt	4440
atttctgcag	aaagaatgat	cactccctca	gcctgctgtt	caggcccttt	cagccctgat	4500
gcgtttttgga	tcctaagcag	gtggaagccc	cttgcagctc	attggacaga	ctccacgctc	4560
agacccccag	ccttggggcc	cttgtctctgt	ccttccctct	gcagagggct	tgcttccatc	4620
tctacctgtc	cagaattttg	ccccatattt	gagaccttac	gtagctcttt	cttcatcctg	4680
cccaccattt	ctgtcaactt	ggaatgtgat	ttccctccca	tgagtccacg	ttgtacttta	4740
tcctcttctt	ggcgcttgtg	atgcttttgt	ctcttagctt	ggaaagggaa	gctagcatth	4800
atttcagcct	gctacgtttc	aggcagagag	ggagagtact	tttggtcata	gtggtcacac	4860
gtaccctcct	tttccctgct	agcctgtgtg	tcacgaggac	tgccctctct	tcctgtctgc	4920
atcgttccct	cagggttgcc	caatcgagtg	cctctcatat	gggggggtgc	tattaaacaa	4980

tagttgagtt	acatgggaag	agggctaagt	aagtacttaa	taataaggaa	ccgagcttta	5040
tgaaaatgaa	aatgggattg	acaattctag	accctagttt	ccaagtacta	acttgaaga	5100
aatgcaatga	tgtgagaaat	taagaaggag	atagaggcat	taggaaaaac	agaccggagt	5160
agagggtaa	atagtaaagc	tgttccatta	atgtgaataa	acagaaacct	tttggttcat	5220
tttttttaag	ttgaataaaa	gtgtcttgaa	atggctgtaa	aacaaaggaa	taatatttga	5280
gagagcatta	cagttgaaat	cccgtttgtg	gcttcgattc	taggaatata	acattgtttc	5340
agttttgttc	ggtgccagtt	ttcactttgc	agctagagct	gatggcatcc	tccccccatt	5400
tcattgaaaa	tattgtgaca	tcttgacttt	ttctatgggt	tcttttctac	tttggttaatt	5460
ccagttagca	gtttgcattt	tatatcatca	ggttgatttt	tcaaggctttgatattgtct		5520
gaagtgtttc	ttctcagtca	ttcataagga	gtatgcatag	ttatatacat	tattttttct	5580
gctctgcatac	ttatattcag	aaatattttac	accaaaaaag	catagaatat	gtgggaattt	5640
aatattcctt	ttataacatg	aatgggtaga	aaaactgtag	agcccttata	attaattgat	5700
gacatataat	taattgatta	attttaagaa	catttaactg	aggatatgtt	aatatgcctt	5760
gaatgaattc	cagcagtgat	catttatgga	taagtatcct	aatattttct	gctaaaggtc	5820
agcaactgta	atctgtatcg	ccttggaaaa	aagaagggac	taccagccg	catggtggtg	5880
tcaatatattg	atccccctgt	gaattggctt	cctcctgggt	atgtgtaaa	tcaagacaaa	5940
agcaacacag	ataaatggga	aaaagatgaa	atggtaagtt	tttgtgtgtg	tgtgtgtgtg	6000
tgtgtgtgtg	tgtgtgtaac	tggagggtat	tacttttcgg	tgagccaaat	aatttgtttt	6060
attaattttt	tgtttcattt	tcttgggtatg	tttataatag	agtagatatt	tgatatattt	6120
aattaattcc	tttaattaca	ctgtcttttc	actgaattca	gaaatagtat	tataattttg	6180
atggaggcaa	atttctattt	ttattatttc	ttttccaaag	gcataagagt	atgtgatgtt	6240
ttgactttga	gttttgctct	tctttaaaaa	aatttcaact	tgctgttatt	acaattttatc	6300
ctagatcctt	agctctgttc	agtgaatga	cttttcagtga	acctgtgatc	tccagtcctg	6360
ctgtgaaata	attaattttca	gtaaaatctt	gctttttag	ctcagggttt	tcccagtcag	6420
gactcctgtg	aacttaaaaa	aaaaaaatca	tccataaaga	ttgttatttt	ctggaataaa	6480
tttaaatctt	gccagtgact	taagaagact	ccaaatatca	gcaacagccg	cttcattttg	6540
tcttgtcttg	aaggccacca	gagggcactt	gggagggcct	ccaaactgca	ggaaccagcg	6600
cagtgggtgt	tgactgggag	agttctagtg	cctcttccga	agttaaaggc	aatgcttcag	6660
acagtttcat	ttcttggaga	tttattttgc	attaaaaata	aattggctca	ttgttacttc	6720
atttttacct	caggccaaca	atgataatac	cgttttttct	tttcaaaggt	tatatatttta	6780
aatatccatt	ttctccatgt	cttctttgtg	atgcatgtat	cctatatatc	tgcccttaag	6840
tatttccagg	tagcatgttc	agtgcacta	tttggtttt	tacctattta	ttgaggatgt	6900
ttttaactca	tgtagtattt	gtcttattac	agaattagaa	cttattttga	aaagcattaa	6960
gggaatattt	taatgcaagt	taggtccgaa	caattatttg	ttattaattt	agaaatatgt	7020
agaaccttag	aggaaaatgt	atagattttc	aactttagaa	atgggtatgt	atttctatga	7080
ataacattcc	agtaacagtc	atcctccttt	gttaataccg	tttcataatg	tttttggtc	7140
tttttaaaaa	cttgtagcat	gaagggtgaa	ttggcatgtc	attgattttt	tttttaagat	7200
acaacacaaa	gttcaattta	tttttcttaa	tgtttctgat	ggcacttttg	ttattggaat	7260
tcattagaaa	tactgttcag	atttttattt	agtaagttac	ttttattgaa	atataggccc	7320
ttgcattata	ttgaaaagat	acactgtggt	tttggctggt	tgcatgtcca	ttctccctac	7380
cctgctctgg	cccttcagca	aatgggctta	agtggaaacc	tttgcattgct	aaaacgcctc	7440
ttaatagacg	agagtatcaa	agttgacttg	aatgatatag	aaaaggattt	catgtggctg	7500
ttttttctta	aaaggcttga	agtgtctctg	aaaaacattt	tatgagacag	aacccctc	7560
ttttgtagat	gaagcatctg	aaaccagag	gcactaaaag	gctttgcca	ggatcacaca	7620
gtttgtgata	aaagtcagcc	ccttgtgatt	tttgtgtctt	gccacttttg	gcttatggtg	7680
gcacctttct	aaagatacag	aaggtttttt	tcaataaaaa	aaaaatattg	tctgattttt	7740
taaaaatcgc	agtttggccc	tctttttctt	aaggaccaat	caaaaacatc	ttcagttgc	7800
cctggaaagt	ctaagattgt	tagcaggaaa	tgttccttga	ggtctgccgc	tacagttgct	7860
tttgggtgtc	cttattcttg	aaaagggtgt	tctttcttaa	ttaaaaaaat	gaaaagataa	7920
atagtttagag	atatggcttg	gcttactgct	atttcttttc	agacaaatgt	agtgtttata	7980
tcttgagtct	agtttaaaat	attttagtag	tttaaaaaat	gcttgaaggt	tgcaactttt	8040
ttttgtcaga	acactggaaa	gttggtacaa	tcaacattga	tgcacacctt	tcgtcttccc	8100
ccttcacaag	ttttttgggt	ttttaaaaaac	ttgcataaca	gaaatttggc	atctttctag	8160
gattgcaaa	aagttacatc	attactgaaa	tctagcccat	tattaaggt	gtcactcaca	8220
aataagcttt	tgccaaagaa	attggaatta	gcaaagatct	tttgacagaa	attggattgt	8280
tgtgtttcat	gttagtctaa	attttcttcc	attttgttca	gttatgctat	aatctgttcc	8340
cctgattacc	gtagttcaga	gtggagggaa	aaagcgtaac	ttctcaaatt	catagcttag	8400

tgacgtgac	acttttattt	tttaaggaaa	gcagtgtagt	ttttttgtgg	caagtatact	8460
ttgaagtgg	aatagggaca	aaaagcttta	ttataaaatc	ctattgtaca	ttttaaaaaa	8520
tgattttatc	tgtttttata	ttatatctt	aattgcaaag	gtaatgcttt	tctacatctg	8580
gaatttcgtt	ttattagttt	gaaaatcttt	ttgaaaatca	aataccaca	ttttcaaatt	8640
ttgtcagcaa	aattgaagat	ctgtgtgac	agcatatgag	tgctttcatt	gtgtgtccta	8700
ccagagttag	acgacttagt	tgaagttttg	cattgtggac	attaatttta	actttatatc	8760
catgttcaaa	gtccttaact	taaagcttca	tactggataa	aggtcatttt	ataacttaga	8820
aaacgaacat	tcaaagaaca	tgttttactt	tgtttatatg	attaaataac	ttattttatg	8880
ttaattgaaa	acaaatggcc	atgattttta	agttgccttt	tagtatttgt	ggttgtcatt	8940
tgaaattatc	cataaccctt	gcttttattg	agtttcaaac	ccttttaaaa	acagcagcta	9000
tgtttcccct	ccttccccat	tccccctcgt	ttcagacaa	agactgcatg	ctggcgaatg	9060
gcaaactgga	tgaggattac	gaggaggagg	atgaggagga	ggagagcctg	atgtggaggg	9120
ctccgaagga	agaggctgac	tatgaagatg	atttcctgga	gtatgatcag	gaacatatca	9180
gattttataga	taatatgtta	atggggtcag	gagcttttgt	aaagaaaatc	tctctttctc	9240
ctttttcaac	cactgattct	gcatatgaat	ggaaaatgcc	caaaaaatcc	tccttaggta	9300
gtatgccatt	ttcatcagat	tttgaggatt	ttgactacag	ctcttgggat	gcaatgtgct	9360
atctggatcc	tagcaaagct	gttgaagaag	atgactttgt	ggtgggggtc	tggaatccat	9420
cagaagaaaa	ctgtggtgtt	gacacgggaa	agagtccat	ttcttacgac	ttgcacatg	9480
agcagtgtat	tgctgacaaa	agcatagcgg	actgtgtgga	agccctgctg	ggctgctatt	9540
taaccagctg	tggggagagg	gctgctcagc	ttttcctctg	ttcactgggg	ctgaagggtgc	9600
tcccggtaat	taaaaggact	gatcgggaaa	aggccctgtg	ccctactcgg	gagaatttca	9660
acagccaaca	aaagaacctt	tcagttagct	gtgctgctgc	ttctgtggcc	agttcacgct	9720
cttctgtatt	gaaagactcg	gaatatggtt	gtttgaagat	tccaccaaga	tgtatgtttg	9780
atcatccaga	tgacagataa	acactgaatc	accttatatc	ggggtttgaa	aattttgaaa	9840
agaaaatcaa	ctacagattc	aagaatagg	cttaccttct	ccaggctttt	acacatgcct	9900
cctaccacta	caatactatc	actggttaag	agcccacgac	cagacttcat	ttctgggaaa	9960
atgagacttt	gtgttgatct	catcgtgttg	gccttgtaaa	agtgatctat	gcattgtacag	10020
tgttcatgct	taatatcaa	gggatggggc	ggggaacaaa	aggaatagaa	agaattctt	10080
tccttgttat	ttggggagca	cgtattgctt	tataactttg	gttggtggga	gtatggctat	10140
catataccct	catcagtgtc	attttatatc	tgccataatta	gagaaatttt	aaccttagta	10200
ttttgatgtg	ttttcccat	tttatcctcc	gcaaataatc	ttctcttgcc	cattcagtgc	10260
tgcttttgg	ttttgattta	gtgtatatt	ctggatgtat	ttccacagcc	ttttattgtt	10320
cttctggac	aaaaagaccc	ctccttttag	gtctttttaa	agatggatag	attaaaagat	10380
taaaagcaat	gatttcacaa	gaaggttcgc	tgcccttgcc	tgtgactctg	ctgtcattct	10440
ctacttctca	ctgtgctctg	tatttgcccc	tcttttaata	gactgtcaac	catttagatt	10500
agaagggaga	acaagccctt	cacacccaaa	tcagcttcag	gctgtgaaac	acagctgaag	10560
tttacatttc	aatttctgta	tcagaaaaat	aagtgcctga	attcagaaca	ccaaagcaaa	10620
gtataaagtt	tgtagtttat	ataataaaa	cagcgtaggt	taaggtgatc	agcaaaatgt	10680
aaaaaccaa	aagtgaamaa	ctatctgact	ctggactgga	aagactgatg	aaactaaagc	10740
ctaattttcg	ttatggagga	aaaatgatac	gtggctttcg	actacattct	gctggaagtt	10800
ccgagacctg	ggttctcgc	tagcagttcc	tgcttctaaa	ttccttgctt	attctgggac	10860
aagtcaccat	cggctccctg	ctcagtttcc	tcagctggat	atattattt	aatcactgtg	10920
agaaaaataga	ggtgttgatt	taacattgat	cattttcaca	ttttgacaac	cagtttacct	10980
gcctttgctc	cctttcacaa	ctcttctttc	tcaatctctt	ggtttgtggt	aaattcattt	11040
ctataatagc	tcaagttaag	aagaggggtc	tcttttctctg	tcactctgtg	taacaaaaat	11100
agcccaggaa	tagtgaggaa	tggtatcact	tatgcacaga	ttccagagtg	tgaatgagac	11160
tttagcgatg	gcagcacagt	gtagccacat	ggagagggtg	gtgcggccct	ggtttcactt	11220
aagtgatgat	gtgtgaggg	gactcgagag	gaaggcccca	gcacctgccc	agacagcaca	11280
gtgccagaga	aaagcattca	gtgatcatga	tagcacctgt	gggttttgt	ttttccttct	11340
taacaagcgt	tagtcttttg	accacttgaa	gattttatga	cccagttta	tataagagat	11400
gtacttaatt	tgtcattaaa	atttagtttc	cagaggcttt	ttagtatgat	atgtcagata	11460
tcctttttga	agaatatatg	tatgaaaatg	attgtaaaata	caaactctct	tcggatttg	11520
ggatcagttg	ctatgtgggg	atagtgtaaa	tgcttctgca	caagcttacg	gttccacttc	11580
ggatccccctc	agattgttac	cagcgttag	aattcctggg	agatgcgatt	ttggactacc	11640
tcataaccaa	gcacctttat	gaagacccgc	ggcagcactc	cccgggggtc	ctgacagacc	11700
tgcggctctgc	cctggtcaac	aacaccatct	ttgcabgct	ggctgtaaa	tacgactacc	11760
acaagtactt	caaagctgtc	tctcctgagc	tcttccatgt	cattgatgac	tttgtgcagt	11820

ttcagcttga	gaagaatgaa	atgcaaggaa	tggattctga	ggttagtgt	gttcaaaacg	11880
atgttgaaaa	aagtgggtcta	actaggagtc	tctgtagtgt	cagagttctg	acggcatagt	11940
ggtctaaaag	gacagcagga	ggtcaggggt	gtgggaccca	gtgtgctgtg	ttctgtggga	12000
gcacgagtga	actgcagttt	gcaggtaggc	ctcttgaact	tgtctgcccc	cactgtgggc	12060
tgtgtgggtca	ttcaggtgaa	gagaaggaa	caggcctttc	agttaggtac	ccttcccacg	12120
ccttcatgag	ggcttccagc	attgaggcat	gccaagaag	tggcctccac	tgccggaccc	12180
caaggcaggt	ttagcttttag	taaaagccca	gtgtagctta	tccttccttt	tttaaattgga	12240
tcagaaatat	ttgctaatat	ctcagggaa	catcataaat	atacattctg	cttctacttg	12300
aagtgggaaa	atctaattta	aaaaacaaac	ttctaaattt	ttgaccattg	gaatttggga	12360
ggcttctatt	gtaagttcag	ccaaaggctg	tctggtgaca	gagctaattc	taatgtgttt	12420
gtgagctatt	tcgaattttt	gtaggaaaag	atattgccta	gatctttcca	gtctcttaac	12480
attcatctgc	atacctgtgt	ccccagaga	gactctcatt	tcctcctctt	cccatttcat	12540
ttcctttgat	tttcttattt	ttgtatattt	tcttataagg	agtcaggaaa	tacaacctta	12600
atactagtag	ctgttttagt	tgtcattgct	ttaatltgt	ccttcccctt	tttaattgca	12660
ccaaaccttt	gttggggagt	agtgactttc	tatgacaaaa	attaagagta	ggtttgaagt	12720
ctagccgcag	agccgagttc	acgccctgcc	agctgccag	atgtgcactg	gaggatcag	12780
taggccctgc	tcttacttta	acgcgcctct	gtgctcttgt	ccaagatgaa	cagcctgagc	12840
tggagcgtg	caggctgtga	ggcgagaagg	cgggaccagc	tcgtagactt	ccaagtgtta	12900
cctagtctca	ttctttcaca	atagctaagc	ttgaaatttg	aggaattagt	taaaattaga	12960
tttaagctct	ctttggatgc	cagtggggca	tattggtttt	gttagttttt	gttcattctt	13020
ttccttccct	ttgtttatat	aaacatatgt	atagaagtta	caagaactga	ttggaaatgt	13080
catggctctg	catttctaac	ttactatttg	atcttaagaa	agtctcttta	cctctctggg	13140
cctccgtttc	ctcagctgta	aaaagagaga	attaaacttg	gtaagtttttaa	aaattccttt	13200
ctatctcaaa	accataaata	tgaacaataa	gtctgttttt	ttaagtaatc	agcagtataa	13260
atgtattata	tgtaaacttg	tatggctaaa	caacctatta	gaaattagta	ttttccact	13320
ttctctttat	ttttttcaca	aatgatttgt	gttgatttta	gaaaagttag	tacaagtaaa	13380
taagaagaaa	attagttaaa	tttgctgat	tatgctacct	cggaaataac	caatattaac	13440
attttgggag	gaattgtgga	tgtgtataga	tataaacata	tctaaaatgt	aaaatggaat	13500
tctattatgt	ataggatact	gtcacctgtt	cttttcacgt	ataatatatt	gtggctgact	13560
ttccgtgtat	tgatgggtat	cgtgatgctc	agggggccaca	cgctgtcaa	cacgtggctg	13620
attgatttaa	acgcttcttt	atggccgagt	aattaagtag	tttttgggtta	ggatgtttta	13680
taaccatgga	ggtgataaat	acgcttatgt	atctagttac	ctccttaaaa	taagttctta	13740
gagatgcaat	tgtctgcatc	aagaattgtc	aacttttcaa	aggcttttga	tgcattgatt	13800
tctttttatta	atttgcatac	atgctatgtc	agatactcgg	ttatagtga	cacatatcta	13860
gtggcttaat	gaagagggaa	cttgaggaa	aaaatctttc	aaatataatt	tcctattttc	13920
cctacaacag	cgattttctgc	tcccaaagc	agcatacacc	cgtgccagca	ccagaccaat	13980
tagtactatt	gaatgcttgc	caagcagcta	gggagtagaac	ctgtttttaa	gtatagttct	14040
ttgattacga	gtgaatttga	atttttttca	tactttttatt	gactattttct	aattctttgt	14100
taaggttgtt	taaagttaga	agtaatcttt	tttcttttgt	gggtatatag	aataataaat	14160
ggggtgggga	tattttttct	ttttttcttg	agaagtttga	aaaacttttt	taaaaatata	14220
acattttgtt	tactattaca	atatagtagg	cataccataa	atggattttc	cccccttact	14280
aaagaagtaa	caaaagtcac	atatccaaga	aaagaaacta	catctgtgga	ctgcctgtaa	14340
aagtggcctt	tttgcttaca	agtcactttt	ccctctgtaa	tagcttagga	gatctgagga	14400
ggatgaagag	aaagaagagg	atattgaagt	tccaaaggcc	atgggggata	tttttgagtc	14460
gcttgctggt	gccattttaca	tggatagtgg	gatgtcactg	gagacagtct	ggcaggtgta	14520
ctatcccatg	atgcggccac	taataggtat	tgttggtctc	ctttagaaa	aaaaaaaccc	14580
acaaaattaa	aaacaacttc	agagatatta	ttcatattat	tctttcattt	tgattgcaga	14640
aaagttttct	gcaaatgtac	cccgttcccc	tgtgcgagaa	ttgcttgaaa	tgggaaccaga	14700
aactgccaaa	tttaggtaag	caaaaaatgt	acatggaaaa	aacattaact	taaaaacatc	14760
aaaggggaaa	agttcacaaa	gatattgtaa	actaatgatt	ctgaaaaata	tttactactgt	14820
ggtgtgctgt	tgtcagattt	ctgtttgtta	tctgattgac	ttctcttttt	tccttctgtt	14880
tttatgaaat	aatgctgtaa	taaagactag	acggcagccc	tgtctgtcgg	gggtatgcaa	14940
ttgcagtaag	tcgtaacgag	tgtttccttt	gtgtgggtgtc	agcttatata	tgggactcct	15000
ggcctgagag	tgcacactaa	atgctgattg	acaatgataa	taaatacttc	tgacttctaa	15060
ttcaagctgt	ttggattttt	tacagccccg	ctagagagaac	ttacgacggg	aaggtcagag	15120
tcactgtgga	agtagtagga	aaggggaaat	ttaaagggtg	tggtcgaaag	tacaggattg	15180
ccaaatctgc	agcagcaaga	agagccctcc	gaagcctcaa	agctaataca	cctcaggttc	15240

ccaatagctg	aaaccgcttt	ttaaattca	aaacaagaaa	caaaacaaaa	aaaatt'aagg	15300
ggaaaaattat	ttaaatcgga	aaggaagact	taaagttgat	agtgagtggg	atgaattgaa	15360
ggcagaatttt	aaagtttggg	tgataacagg	atagataaca	gaataaaaaca	tttaacatat	15420
gtataaaatt	ttggaactaa	ttgtagtttt	agttttttgc	gcaaacacaa	tctttcttc	15480
tttctcact	tctgctttgt	ttaaatcaca	agagtgcctt	aatgatgaca	tttagcaagt	15540
gctcaaaaata	attgacaggt	tttggttttt	ttttttgagt	ttatgtcagc	tttgcttagt	15600
gttagaaggc	catggagctt	aaacctccag	cagtccttag	gatgatgtag	attcttctcc	15660
atctctccgt	gtgtgcagta	gtgccagtc	tgagtagt	gataagctga	atagaaagat	15720
aaggttttcg	agaggagaag	tgcgccaatg	ttgtcttttc	tttccacgtt	atactgtgta	15780
aggtgatgtt	cccggtcgct	gttgacactg	atagtaaggg	acagattttt	aatgaacatt	15840
ggctggcatg	ttgggtgaatc	acatttttagt	tttctgatgc	cacatagtt	tgcataaaaa	15900
agggttcttg	ccttaaaagt	gaaaccttca	tggtatgtct	ttaatctctg	atcttttttg	15960
aacaaactgt	tttacattcc	tttcatttta	ttatgcatta	gacgttgaga	cagcgtgata	16020
cttacaactc	actagtatag	ttgtaactta	ttacaggatc	atactaaaat	ttctgtcata	16080
tgtatactga	agacatttta	aaaaccagaa	tatgtagtct	acggatattt	tttatcataa	16140
aatgatctt	tggtctaaaca	ccccatttta	ctaaagtcct	cctgccaggt	agttcccact	16200
gatggaaatg	tttatggcaa	ataattttgc	cttctagggt	gttgctctaa	caaaataaac	16260
cttagacata	tcacacctaa	aatatgctgc	agattttata	atgattggg	tacttatta	16320
agaagcaaaa	ccagcacctt	ttacccttag	tctctcaca	taaatttctt	actatacttt	16380
tcataatgtt	gcatgcata	ttcacctacc	aaagctgtgc	tgtaaatgcc	gtgaaagttt	16440
aacgtttgcg	ataaactgcc	gtaattttga	tacatctgtg	atttaggtca	ttaatttaga	16500
taaactagct	cattatttcc	atctttggaa	aaggaaaaaa	aaaaaaactt	ctttaggcct	16560
ttgcctaagt	ttctttaatt	agacttgtag	gcactcttca	cttaaatacc	tcagttcttc	16620
ttttcttttg	catgcatttt	tcccctgttt	ggtgctatgt	ttatgtatta	tgcttgaaat	16680
tttaattttt	tttttttttg	cactgtaact	ataatactc	tttaatttacc	tttttaaaag	16740
ctgtgggtca	gtcttgcaat	cccatcaaca	taccagtaga	ggtttgctgc	aatttgcccc	16800
gttaattatg	cttgaagttt	aagaaagctg	agcagaggtg	tctcatattt	cccagcacat	16860
gattctgaac	ttgatgcttc	atggaatgct	gcattttatat	gtaagtgaac	tttgaatact	16920
gtccttcctg	ctttatctgc	atcatccacc	cacagagaaa	tgctctgtg	cgagtgcacc	16980
gacagaaaac	tgtcagctct	gctttctaag	gaaccctgag	tgaggggggt	attaagcttc	17040
tccagtgttt	ttgttgtct	ccaatcttaa	acttaaatg	agatctaaat	tattaaacga	17100
gtttttgagc	aaattaggtg	acttgtttta	amatatttt	attccgattt	ggaaccttag	17160
atgtctattt	gattttttaa	aaaaccttaa	tgtaagatat	gaccagttaa	aacaaagcaa	17220
ttcttgattt	atataactgt	aaaagtgtgc	agtttaacaag	gctggatgtg	aattttattc	17280
tgaggggtgat	ttgtgatcaa	gtttaatcac	aaatctctta	atattttata	actacctgat	17340
gccaggagct	tagggctttg	cattgtgtct	aatacattga	tcccagtggt	acgggattct	17400
cttgattcct	ggcaccaaaa	tcagattgtt	ttcacagtta	tgattcccag	tgaggagaaa	17460
atgcctcaat	atattttgtaa	ccttaagaag	agtatttttt	tgtaataact	aagatgttca	17520
aacttagaca	tgattaggtc	atacatcttc	aggggttcaa	atttccttct	accattcaaa	17580
tgttttatca	acagcaaact	tcagccgttt	cactttttgt	tgagagaaaa	tagtagattt	17640
taatttgact	cacagtttga	agcattctgt	gatcccctgg	ttactgagtt	aaaaaataaa	17700
aaagtacgag	ttagacatat	gaaatggtta	tgaacgcttt	tgtgctgctg	atttttatg	17760
ctgtaaagtt	ttcctgtgtt	tagcttgttg	aaatgttttg	catctgtcaa	ttaaaggaaa	17820
aaaaaatcac	tctatgttgc	cccactttag	agccctgtgt	gccaccctgt	gttccctgtg	17880
ttgcaatgtg	agaccgaatg	taatattgaa	aacctaccag	tggggtgtgg	ttgtgccctg	17940
agcgcgtgtg	taaaggactg	gggaggcgtg	tcttgaaaaa	gcaactgcag	aaattcctta	18000
tgatgattgt	gtgcaagtta	gttaacatga	accttcattt	gtaaattttt	taaaatttct	18060
tttataatat	gctttccgca	gtcctaacta	tgctgcgttt	tataatagct	ttttcccttc	18120
tgttctgttc	atgtagcaca	gataagcatt	gcacttggta	ccatgcttta	ctcattttca	18180
agaaaatatg	cttaacagag	aggaaaaaaa	tgtggttttg	ccttgctgct	gttttgattt	18240
atggaatttg	aaaaagataa	ttataatgcc	tgcaatgtgt	catatactcg	cacaacttaa	18300
ataggtcatt	tttgtctgtg	gcattttttac	tgtttgtgaa	agtatgaac	agatttgtaa	18360
actgaactct	taattatgtt	tttaaaatgt	ttgttatatt	tcttttcttt	tttcttttat	18420
attacgtgaa	gtgatgaaat	ttagaatgac	ctctaacact	cctgtaattg	tcttttaaaa	18480
tactgatatt	tttatttgtt	aataatactt	tgccctcaga	aagattctga	taccctgcct	18540
tgacaacatg	aaacttgagg	ctgctttggg	tcctgaatcc	agggtgtcc	ccggcagctg	18600
gcttcttcag	tcgctccctg	gaggcagggtg	ggcactgcag	aggatcactg	gaatccagat	18660

cgagcgcagt	tcatgcacaa	ggccccgttg	attttaaata	ttggatcttg	ctctgttagg	18720
gtgtctaata	ccttttacaca	agattgaagc	caccaaactg	agaccttgat	accttttttt	18780
aactgcatct	gaaattatgt	taagagtctt	taaccattt	gcattatctg	cagaagagaa	18840
actcatgtca	tgtttattac	ctatatgggt	gttttaatta	catttgaata	attatatattt	18900
tccaaccact	gattactttt	caggaattta	attattttcca	gataaatttc	tttattttat	18960
attgtacatg	aaaagtttta	aagatatggt	taagaccaag	atattaaaa	tgatttttaa	19020
agttgttggg	gacgccaata	gcaatatcta	ggaaatttgc	attgagacca	ttgtattttc	19080
cactagcagt	gaaaatgatt	tttcacaact	aacttgtaaa	tatatatttaa	tcattacttc	19140
tttttttcta	gtccattttt	atttggacat	caaccacaga	caattttaat	tttatagatg	19200
cactaagaat	tcactgcagc	agcaggttac	atagcaaaaa	tgcaaagggtg	aacaggaagt	19260
aaatttctgg	cttttctgct	gtaaatagt	aaggaaaatt	actaaaatca	agtaaaacta	19320
atgcatatta	tttgattgac	aataaaatat	ttaccatcac	atgctgcagc	tgttttttta	19380
ggaacatgat	gtcattcatt	catacagtaa	tcatgagca	gaaatttgca	gtctgcacct	19440
tatggatcac	aattaccttt	agttgttttt	tttgtaataa	ttgtagccaa	gtaaatctcc	19500
aataaagtta	tcgtctgttc	a				19521

<210> 2023
 <211> 126
 <212> DNA
 <213> Homo sapiens

<400> 2023						
agggattcac	cagcctcagc	ctccccgagta	gctgggacta	caggcgccccg	ccaccacgcc	60
aggctaattt	tttgtatttt	tagtagagaa	ggggtttcac	catgttacc	aggatggtct	120
tgatct						126

<210> 2024
 <211> 126
 <212> DNA
 <213> Homo sapiens

<400> 2024						
agggattcac	cagcctcagc	ctccccgagta	gctgggacta	caggcgccccg	ccaccacgcc	60
aggctaattt	tttgtatttt	tagtagagaa	ggggtttcac	catgttacc	aggatggtct	120
tgatct						126

<210> 2025
 <211> 10417
 <212> DNA
 <213> Homo sapiens

<400> 2025						
aaagttttga	agaagacctt	aaaacctaca	aagctattga	aaaggttaaga	tcaacatatt	60
aacatgtgcc	ggcagattgg	gaaaaaaaaat	taatgtggct	tctttgttat	tctttgtatc	120
cataggaaca	gataatgagt	tttatctaca	ggcmtaate	tcaaaagagg	tgtactctgt	180
gtacattgta	aggaagtgtg	gaatgatcac	aaagaccgg	cagtgttata	caaagtgttt	240
gaaagggcac	aataagataa	cagtgaat	gatcatcaca	tatgttat	gggatgaacg	300
tctgggaaat	tgcatgtcaa	atatggacag	taactgttga	ctgcttaagt	tattgagtga	360
ttggaaaatg	atgacatggt	agttacattc	agaaagacta	acagtcgtgt	gtgtgtgtgt	420
gtgtgtgtgt	gtgtgtgtct	gtgtaggcac	ggtacagtat	agactttgta	ccataggtga	480
agggtctcca	tacgattgga	actgggaggg	attcattgga	agaagggtgc	tgacgaggt	540
tactttggag	tactgaagta	tgtttaggag	agagagagat	attttcagga	gagttttttc	600
tgtagggtaca	gaggcagaca	gcatacagca	gagaggatgt	gttttcatca	taagttctgt	660
tttttaaatg	ttcagatctt	gagaaacaag	tggtccaagt	cgggtgatac	tggtgagact	720
gacattgatc	ctgtcatgga	tgatgatgac	gttttcccac	catatgtgtt	gaggcctgac	780
gatgggtgtc	cacgagtcac	aatcaacacg	gccattggac	acatcaatag	gtatggcatc	840
atatcatttg	tgtggaaaac	ctgggaatgt	tgcacagttt	aagtctaaac	ctgtacattt	900

tgtattgttg	acatttttgcg	gttaccagtc	tttacttaga	cttgccatat	tttcgataaa	960
gaaaagttac	ttcttttttc	attttttttt	aaatcaaaag	gcaaaaacag	tatcgtgcag	1020
caataaaagt	tcagtatcc	ttggcaaggc	taacataatg	aaggcatttt	aaattaggtt	1080
taatttaatt	ttataattct	caccaatttt	tttctaaatc	ctgaaatttt	ttgttttgtg	1140
ccataaccat	tgggtaatgt	tgaattttcc	cctagcaata	aagtaagatt	gtgaaaact	1200
aatttatgtt	tttgggtaca	ttgtaattta	ctttgtccag	agctgataat	aaaatttcta	1260
agagctaaga	acagcaaagt	cattcctgga	ttatatacca	ggataatttc	tattcagaga	1320
caaaagagca	agtataagat	tttctttgta	accttttatt	ttgaaacaat	ttcaaacttt	1380
aaagtgttgt	aagaatacta	gaattccgca	tatgcctttc	accagacac	caagagagac	1440
tcattcagtt	tcattgagaat	gttctttgta	gccaaagtat	ctaccttaga	gtcaggagtt	1500
gtcctcaact	cctgttgtca	catcttctca	gtctccttca	atctggaacc	attctttagt	1560
ctctccttga	ctttaatgac	cttgaaactt	tggagatag	ataggctgt	attttgtagt	1620
cttactgtca	gtctgggttt	gtctgtctatt	ttcttatgat	gagaccagc	ttacaaattt	1680
ttgggcagca	catcactgag	acgatggtgt	cctctcctca	tcctagctta	ccaagtcgca	1740
caccatgttg	atttgtgccc	ttaccggtgg	taacttagat	cacttgagtg	aagtctgcca	1800
gttttctcta	gtgtaaagt	ccctttcacc	ctttttataa	ttagtagata	tttcatgggg	1860
agatactttg	agacgggtata	aaatttggtc	cttttcccag	tttgactcat	tagtgaagc	1920
attctttgat	atttctggcc	caaattgatt	attactatga	tggctactaa	atgattttct	1980
aactccatta	tttctgtatt	tattagtgtg	cattctacca	tcatttctt	ctctccgttt	2040
attcattctt	atattatcat	tttttaatgt	cagtgtgaac	ttatggactc	ctgttttatt	2100
taatgggtta	taatctatca	ttatcattta	ctgtttgttt	tgatgtttaa	attgtttcat	2160
atttggccag	tgggaacccc	ttaaagctgg	tttctttgtc	tttttaacat	ctcactatta	2220
ttccttgaat	acttccctgt	tttatggcgc	aagacattct	agactgcccc	agccttgatg	2280
ttggcaattt	cctcgaattt	agtggagaaa	aagtgttagt	tagaaaccaa	gaactggata	2340
ctaggtttat	tcattgtctac	cgggtgtgtg	ctgctgccag	gcgtttttagt	ggacagagct	2400
agaatgtttg	tttgttcatg	tttacatctg	tattttgttc	agtgtctatc	tgttgatata	2460
tctattttca	gtgtgacact	agaggtttca	ttctagattt	cctcctttct	gtctttgtac	2520
ctcctttctc	taataatcag	aaatttggct	cccattgtcc	tcaaaataat	tagtgttcag	2580
tcttctgtta	tgtagccagt	ctccctgtct	tgtagggctg	caactgtggg	cagggtgccct	2640
tgtgtcacag	gtcgcaacct	cacagggctg	ctgcccattc	cagcaccctc	ctgatgtggg	2700
tcctgtccca	gcaccccttt	ctgggctagc	tttctgccct	gttccaacct	tcctgtgtgc	2760
tgtgtctcag	tgattgtcta	gttctactgt	cctttttgtg	tcagcactgg	gctgtcccgc	2820
cctctgtcta	tgccttctct	atatgtgtgc	tgttagttgg	tgggaaatgt	aagatgatta	2880
aggaaaaaac	attggcagta	tgttttctta	ctggattctg	aacaataactt	tgtgtcttat	2940
tatggtaaca	ctcgacacat	gttactattt	aaattcaaaa	ttcaatttaa	aataaaataa	3000
aaaatggagt	ttcgtagtgt	tacttctcac	atttcaagtg	ctcaccagcc	actgccctgt	3060
tgggcatcga	agatatagaa	catctttgca	gaagttctgt	tagacaacac	tattctgtct	3120
tattcgaagt	ttgaagcagt	aaagtttaaa	tgccacatat	aaatacaaat	tcagtagagg	3180
ggaagaggca	catgacaaat	caaactcgag	gttataaata	tcaatatttt	ctcagttgta	3240
gattcagcct	cagaatttct	ttttcttacc	agatactgtg	ctagattacc	aagtgtaccg	3300
tttactcatc	tagctcctaa	atgcagaacc	cgagatttgc	ctgatggtag	attttattca	3360
actctttatc	tgccaatata	ctcacctctt	cgagcctcca	ttgttgtaag	tttagaagaa	3420
gaaatgattg	ttatctttta	aaatgtgtca	ttagtggatt	ttttcagctt	ttctaagat	3480
tgcaagttat	aggtaaattt	gatttttaaaa	tctactttca	tgagcaggag	ccttgtgttg	3540
acagaccaaa	aataaaaaata	aaaaccaaata	ttactttcaa	aagtagattt	atagattgct	3600
tttgtagtca	tctacatgtt	catattttgta	atagactgtc	taattttacag	atacttagaa	3660
ctggactagg	tgatctctga	gttttcttct	aagggtgttac	taacatgcac	atttttgaca	3720
gaatcattca	actgtggctt	agacacttag	agtaataata	aacttattat	agatcgtttg	3780
gttgtcctag	ttattttgtt	gggtgactcaa	aaatctgctt	tttgtaaata	ctgttcttgg	3840
tctcagtact	gattttccaag	tgtttccaagg	tgactaattt	ctattgcaca	taaaagctg	3900
ctcaatactg	ttaatgttat	agctatgttt	tgataaatct	ttctttttgt	tacatattta	3960
ttgattagta	aaaataagat	acttttaaat	cttactgaaa	tttaaattca	tcaaaattgt	4020
aaaatcttaa	ttatgactta	gtttttacta	ggcaggactt	ttaaagatga	atattttcaa	4080
tatggagatt	agaattttta	aaaacttgct	ggaatttttc	aaaataaaga	attttgtttt	4140
ggtaaaattga	acttttaaaa	tgttggggca	gtgggtttcat	aggtgtttca	tgtgctagag	4200
gtaatacagc	gatgtgcata	tataatggaa	aggtttttgt	tatttttcagg	gtccaccaat	4260
gagctgtgta	cgattggctg	aaagagttgt	agctctcatt	tgtgttga	aactgcacaa	4320

aattggtgaag	gatgtttgaa	aagcatatac	gaatgaaaat	aaattgcaac	cattgtaaaa	4380
aaaaagcata	tagaggactt	tatagatctg	taaggatttt	gtagagctat	tcacttgctg	4440
atcttaaatgt	gctttggtga	atataaacat	aagtgttagt	aacttgaaga	tcctacattg	4500
ttgtgggagc	tctttgtttt	ccatagcttg	actgcaaaca	actgtcattt	atttgctctc	4560
tttaatgact	ccttttaagt	acataaaggt	cttttcgtaa	ttgttgaatc	atgcaccatg	4620
aacacttggtg	ttttaatatg	tcagtctctc	aaattagttc	atactagtat	agaaattaat	4680
ccttttttaa	aaaatgaact	cagtttcttt	tttttttttt	ttcaatcct	gctcctgtat	4740
aagtggaccc	attttctatg	gccattttat	ttagcattga	tatgtggtga	tgtcatgttt	4800
agatgttttt	gtttctgaac	cttagaacag	aatttgcagt	ccagctcata	ttggaatata	4860
tggaatgcaa	aatagacttt	gcctgaagtg	tgaatctgat	tactttttaa	ttgtaaaagg	4920
caaagggtgct	ttagtttcca	ttacttttcc	aggctcttct	aacatagttc	tggtctaaat	4980
tctttactaa	ttaatcaggc	aaaatctgga	ttgtgttaat	tctctcttta	aatttgttag	5040
gcgaactgga	tgaccatttg	atgccagttg	ggaaagagac	tgttaaatat	gaagaggagc	5100
ttgatttgca	tgatgaagaa	gagaccagtg	ttccaggaag	accagggttc	acgaaacgaa	5160
ggcagtgcta	cccaaaagca	gttagtattg	gttagaacag	agtaaaaacc	tagcattttct	5220
gactttgttt	tccgctacat	caaatctcag	ttcctctgct	tggttggtt	cccacaccct	5280
tacagttttg	cccactctgg	atctcagctc	ctttctccga	ttcacagctt	ctctcagatc	5340
agcctctttc	cttcctaattg	tagaatgtgt	gctcttccac	ttcagagggt	gcttttggtt	5400
ttcttctcaa	aaggattctt	ggacccatct	gtcatattct	atccagaatg	agattatttc	5460
atttaaatag	acattctttg	tttcattcag	tttagtggtg	tgattcttgt	tttacttatg	5520
atttggggct	aagacagaag	aggattttgtg	tgataaaata	agcaagtga	aagatgccct	5580
ctcaagatga	caggtacact	ggaaggtaga	agcacaaata	tctgtcagga	gttatgtcag	5640
attcccagtg	tgggccattg	ggaatcgaaa	taagttattt	ccatggagtg	tttccagctc	5700
aatctgtggg	catcctagca	gagttcacac	atgaaagcat	ctctaaatct	aacttctagt	5760
aatagacaaa	cttggctgaa	gtattttattt	ttaaaatatt	tgtaaatatt	tttacctcat	5820
aagaacccca	agcaaaaagca	gaattttgct	gtgtgtagta	gtcccgctta	cccttgaggg	5880
gtatgttcca	agaccacag	tggaaactgc	agatagtacc	gatcctccag	cagctcaacg	5940
ttgtttcatt	agaacgttga	caaggaaaaa	aaaaatcggt	cccagccagg	gccactgtct	6000
ctatgtgggg	ttggcacatt	ctcctcatgt	ctgcttactc	cggtttccct	ctacatccca	6060
aaactgtgca	catcaggtga	actggcgtgt	ctgcactgcc	ccactgtgag	tgagcatggg	6120
gatgcattgtg	cgtgtgccct	gccacagagt	ggtgtcctgt	ccgggatggg	ttcctgatg	6180
gggcctgag	ctgccaggat	agactctggc	acccttggcc	ctgaactgga	ataagtgggt	6240
ggaataatcat	cttccttgtt	tttattcatt	tttcttaagt	gtatctatag	ctcacattta	6300
ttttaatgct	taatattaaa	agtgtttttt	tttaatttag	aaatttgggtg	atgtttttgt	6360
gatcagaaat	gtgctggagg	aattttaactg	atttatgtca	attagcctgt	gggaaaattg	6420
gtttctttct	accaatttgt	tgtttccctt	agccagtttc	taagaacctg	ccgaagacat	6480
taagttagga	cttacagcat	atattatgct	ttttaaaata	cgtttgtaga	tatttatgat	6540
agtttaagat	ataaaattagg	cacagtaata	acaaaataga	acaattgtaac	catatactg	6600
taataaaaagt	tatgtgaatg	tggtctctct	caaaatactg	tactgtacac	acctgttatt	6660
ggaccgtgac	tgacctcagg	ttactgaaac	catggaggct	gcagataaag	ggggactgct	6720
gtgcctgtat	gttagcctaa	atatgtgttt	ctttggtttt	gcttatgcag	ttttaccaag	6780
tttttacttt	ataaaatttt	gcacccagct	tagcattttc	aagattcaga	atcatgtttt	6840
taaaaaatca	tgaatgttac	ccattttccc	aaaatgcagt	ttttcctcat	accaaatttt	6900
cacgtgagac	tagtttcatg	tgataaagtc	gttaatgata	agtgtttcta	aaagcatagt	6960
attggctggg	tgtggtggtt	cacacctgtg	atcccagcat	tttagaggc	tgaggcagga	7020
ggatcacttg	aggccaggaa	tccgagacca	gcctggtcaa	catagtgaga	ccttgtctct	7080
acaaaaaaag	aaaagcatag	tactgcctgg	catcctgttt	aattaataga	tacattcttt	7140
attttctgat	tctctattaa	atataactgt	ctctttttacc	agcatttttg	taccttttaa	7200
ctacagatgc	agttcttttt	cattgaacct	caggaactgc	aagaccataa	tctgaaggat	7260
tgtgttaata	ttgaaagcct	agcagcaatg	tccatttaat	tatggttcac	tcacataatg	7320
aggtagccat	tacaaatgat	gatattggct	catattgact	cggacagata	ttctctttac	7380
agtaacggga	taaaaatcag	gctatctcac	aaacacagata	acacacatac	cctaataatac	7440
accagtgttg	tgtgatttta	tttgtattga	aaaatataaa	tgtatatatg	tttctatgta	7500
tttatgcata	gaaaagaggt	ctaggaatta	tacagtgtat	caaaatgtta	ataaaggctg	7560
tctttgagtg	ataggattat	atgtgatttt	ttaaaaattt	gcctaacttc	attttctgat	7620
actctacagt	taatacataa	aaagcccaag	gaagagatga	gttttcttgt	cagaagaaat	7680
agatcaaatg	aatagtattt	ttaaaaaggc	cctacagtgt	tggattgttt	tatgtataat	7740

tttgggtatta	gctatgtagt	cagcactgca	ttataatgta	tgtgaacttg	ggccaccgtc	7800
agcagccctg	tcctgagatc	cgctgactta	cccagcagg	ttaagtaatt	aagaagtgtc	7860
atgcctcggg	tatcttctta	gcttattctc	atcagctttt	agtaaagcca	gaattaat	7920
gttttcttgc	tgacatctgg	aaaagaggct	aatatgcttg	agcatgacgc	ttaattttcc	7980
tttccaactc	tagattccag	agtgtttgag	ggatagttat	cccagacctg	atcagccctg	8000
ttacctgtat	gtgataggaa	tgggttttaac	tacaccttta	cctgatgaac	tcaactttag	8100
aaggcggaag	ctctatcctc	ctgaagatac	cacaagatgc	tttggaatac	tgacggccaa	8160
acccatacct	caggtaggta	tttcataatg	agtacttatg	tcaaaaaacgt	cttgcttagg	8220
aaaaggaaaa	aaaaaaaaac	tagtagtaag	taccttttgt	tacctcagta	tgtttaatat	8280
ttaaagatcg	aggtgcctct	tctatttctc	cactagaaag	catcatttct	gttctgaagt	8340
taactgtaat	ggaataaaat	acctgttaat	tttgaggggt	gctttacatt	tccttttgct	8400
aagattccac	actttcctgt	gtacacacgc	tctggagagg	ttaccatatt	cattgagttg	8460
aagaagtctg	gtttcatgtt	gtctctacaa	atgcttgagt	tgattacaag	acttcaccag	8520
tatatattct	cacatattct	tgggcttgaa	aaacctgcac	tagaatttaa	acctacagac	8580
gctgattcag	catactgtgt	tctacctctt	aatgtttggt	agaaaaaaat	ctcttacttt	8640
gataactcta	gacacatata	caacataca	gctttgggtat	gaaacttatc	tgtatcatgt	8700
tttaacaagc	taaagagtgc	tttttctctt	ctaagttaat	gactccagca	ctttggatat	8760
tgactttaaa	ttcatggaag	atattgagaa	gtctgaaagt	cgcataggca	ttcccagtac	8820
aaagtataca	aaagaaacac	cctttgtttt	taaattagaa	gattaccaag	atgcgttat	8880
cattccaagg	taggtattta	aatggaaagg	aaaatggtgg	tgatactttg	ttttaaaaga	8940
tgcactaggt	cgggcacggt	ggctcacgcc	tgcagtccca	gcactttggg	aggccaaggc	9000
gggcagatca	tgaggtcagg	agattgagac	catcctggcc	agcatggtga	aacctcgtct	9060
ctactaaaaa	tacaaaaaat	tagccaggcg	tgggtggtgca	cgctgtagt	cccagttact	9120
cgggaggctg	aggcagggca	atcacttcaa	gctaggaggc	ggagattgca	gtgagctgag	9180
atcgctccac	tgcactccag	cctggagaca	caccaagact	ctgtctcaaa	aaaaaaaaaa	9240
aaattcactt	attcacatgg	gaatataagt	gggctgtgat	tttagcatg	taattactaa	9300
taggaaatat	attagtcagt	caggcatggt	gatgcgtgct	gtaatcacag	ctactcaggg	9360
ctgaggtggg	aagattgctt	cagcccagga	tttctaggct	gtgcagtaag	ctgtgatcac	9420
accactacac	tccagcctgg	gcaacagatc	ggggaaaaga	aagaaactct	taaggtcgac	9480
ccgttctctc	cagtatactt	gcttaaaaaa	taatacctaa	aacgttatag	ataaggaatt	9540
ttccttttga	aagggtcaga	taatctaatt	ttgataggct	ttcttcttaa	aatctccatc	9600
tttttagtct	ccagagtctt	atagaatttg	attataaata	atgatttcat	ttcttaaaat	9660
ttttataagg	aatattaagc	tctgtgaaaa	tagtaaatcc	agatgattt	ttttccttat	9720
tttataaaaa	tttagggaat	ggagttttgg	ggcaatacaa	tacaggcagt	tttcaaataa	9780
ttataatact	agttgtaatt	caatctttga	tttttttttt	ctttttgcac	ctcaaaacca	9840
tattttaaat	gttagttatc	aggaccatca	ctatcataga	tgatgcagta	atagctttta	9900
tatgacaagt	gtctttaatg	tttagcatta	gtaatatata	aagtattttac	tctttggata	9960
gtgtaaaatt	tttatactat	ttatatagat	gaaatagata	tgtaaagggt	ccatttagct	10020
tcatgtgtta	tcaaaatgta	gatattttag	acaagaataa	taataaaatg	ggacaataat	10080
gtgtccattt	ttacttgata	aaaatacagt	tcttacaac	ttgaaatata	tttggaatac	10140
agatgtttat	tgttacttat	ttttaatctt	ttgaattctt	aatcatcatt	tccatactac	10200
aaacagttgt	attttgagaa	tagttgattt	aaatcaaaaa	gcaactgatt	gtttttttgt	10260
ttttcttttt	tagatatcgc	aattttgatc	agcctcatcg	attttatgta	gctgatgtgt	10320
acactgatct	tacccactc	agtaaatctt	cttcccctga	gtatgaaact	tttgcagaat	10380
attataaaac	aaagtacaac	cttgacctaa	ccaatct			10417

<210> 2026

<211> 2471

<212> DNA

<213> Homo sapiens

<400> 2026

gtactgtgtt	ggcttggttt	gcagtgagac	ttatcttgag	attaagagct	gcatttagct	60
tcttggccac	caggatccca	gagtaaaatta	cttttcagga	ctctaaatag	tacgcaggag	120
atttgaaaga	actgtatgcaa	tttctaagc	agcctgactt	cctcccagga	ggttactccc	180
acaccaagcc	tctgacttca	tgaccaccag	atttagaaat	tgaagtatct	atgtaagaag	240
ttgcctccta	ggcagaaatc	aagaaatcca	actataacat	aggttagagt	ccatttttgt	300

ttttatatcc	ttccacagag	gaaagaggag	gaagaatctg	gagatgcgtt	tttgggtttt	360
gggtttttgt	ttttttttt	ttccagaggc	tcatgtatat	cctacatcat	ggtcagtttc	420
agagcagggc	tgtgccacca	tctcagtgac	tcctggaata	ctaaattgga	tctttgtaga	480
ggaagaaaat	aacacagttc	tagattttcc	ctagctgtta	attagtttta	tggcataatt	540
aaaatagctc	aggagtaaaa	acaaagtcca	gccttaacag	cctgttaagt	cttcttttct	600
tatcttgaaa	agaggtaaga	taatgaagtt	taaacagttg	aagaagttaa	ccggaaagga	660
attaacattt	caaggccttg	ccgcttcttc	ctcctcttgt	gatatgaacc	agaattgagg	720
gaaaataggg	aggagggaac	ccacactgaa	ttttccagac	tctactgctg	aaagacattg	780
tatatTTTTA	ttgtaatcat	atgtgatgca	agataatatt	gctcatatct	gaatcccaaa	840
agaaaagaag	atgtttgtct	gagatcccca	tgaggtaagc	agcccatgg	aaggaccagc	900
tgcattccagc	aaagggctcc	aggtcctga	cgtagttgac	ggtgatggca	gaagtaaattc	960
tttgatttct	tgcagagact	ttgtttctga	aagaggccaa	aagtcatttc	aaactgaattc	1020
tgacggataa	gataggggac	atagctgaga	aaaataagta	gcgaagccga	tctaaacca	1080
ggtgtaactg	tgaaatagta	accatcttct	ttgcacgttt	caaaattggc	cctggacgcc	1140
atcgcaagag	gaaaattcca	aagctgtgca	gcagcggcag	taccattgga	agagtttaca	1200
gcctaccagg	actacttaga	aggggatcat	gtttattttg	atatataacc	cctgattggg	1260
ttgttttaaa	aataaacgtt	attatgttag	tgatcatcct	catggtttcc	ttggaacatt	1320
ctcctctaatt	cctctttgag	agagtgggag	ggagattgtg	tgaggggaga	gagaagtgtt	1380
aaacagagat	gttcctaagg	aggaccagga	atcctaaatt	acctaataaa	ccacttggg	1440
tatctccact	ccttgatagc	actgtgtgag	gtatgatgca	gtcaggtaaagg	gacaatttta	1500
tctttgaaga	caaagataaa	ttcgagtccc	cattttcaag	agtcagttag	aagtaacagc	1560
ttgtttgtgt	ggcactgatt	gaccttgtgc	cgggcaagtg	gtccctccac	aggttatccg	1620
gcttggcaca	caacagacag	agggtgctgg	ggactgtgga	accagacccg	ctgtggttcc	1680
cctcctcacc	ctgcacttcc	ctagctgtgc	atcttggaca	actgattgaa	tcttgtgcct	1740
catttttctg	tagaattgaa	acaataccct	gaccatttgg	gcaatggaga	tcaaatggca	1800
ttgatgcagg	taacatgctt	aacacagggc	ctggtagtga	gtgggcattc	agtaagtgga	1860
agttacgatt	attattaggt	atcaaagaac	aaaacttaatt	tgtegaata	agcaaaccag	1920
ttggaataat	aaacgtagcc	tttagagtta	aatggcaca	ccctgatagc	cacacataaa	1980
ctgttttggg	tatttttctg	tggatattcc	cagtctttat	ttctacatcc	ctcttcaggc	2040
tgagtgtcta	aaatacattt	atatgtagtc	tcaattagat	tatgctgttt	ccccaaaag	2100
actacagtga	ctattatatt	aatttataga	acctcgaatt	gcatggaata	gctaccacat	2160
ctccctttta	acctggtagc	ttccaaaact	tcctgatggc	gttttcgcaa	atgggtccct	2220
atgtgtcatt	gaaggagaca	gtgtatctag	gaaagaaat	gaggatactg	agcaagggtg	2280
tggtggctca	tgccctataat	tccagcattt	tgggagac	aggcaggtag	ctagcttgag	2340
gccaggagtt	caagaccagc	ctggccaaca	caatgagacc	ccatctccac	aaaaaaaaaa	2400
aaaaaaaaacc	ctaaaaatta	tccaggcata	atgggtgcata	ctagtagtcc	taactactca	2460
ggagggttaaa	g					2471

<210> 2027

<211> 2471

<212> DNA

<213> Homo sapiens

<400> 2027

gtactgtgtt	ggcttgtttt	gcagtgagac	ttattctgag	attaagagct	gcatttagct	60
tcttggccac	caggatccca	gagtaaatta	cttttcagga	ctctaaatag	tacgcaggag	120
atttgaaaga	actgatgcaa	tttctaaagc	agcctgctt	cctcccagga	ggttactccc	180
acaccaagcc	tctgacttca	tgaccaccag	atttagaaat	tgaagtatct	atgtaagaag	240
ttgcctccta	ggcagaaatc	aagaaatcca	actataacat	aggtttagagt	ccatttttgg	300
ttttatatcc	ttccacagag	gaaagaggag	gaagaatctg	gagatgcgtt	tttgggtttt	360
gggtttttgt	ttttttttt	ttccagaggc	tcatgtatat	cctacatcat	ggtcagtttc	420
agagcagggc	tgtgccacca	tctcagtgac	tcctggaata	ctaaattgga	tctttgtaga	480
ggaagaaaat	aacacagttc	tagattttcc	ctagctgtta	attagtttta	tggcataatt	540
aaaatagctc	aggagtaaaa	acaaagtcca	gccttaacag	cctgttaagt	cttcttttct	600
tatcttgaaa	agaggtaaga	taatgaagtt	taaacagttg	aagaagttaa	ccggaaagga	660
attaacattt	caaggccttg	ccgcttcttc	ctcctcttgt	gatatgaacc	agaattgagg	720
gaaaataggg	aggagggaac	ccacactgaa	ttttccagac	tctactgctg	aaagacattg	780

tatatttttta	ttgtaatcat	atgtgatgca	agataaatatt	gctcatatct	gaatcccaaa	840
agaaaagaag	atgtttgtct	gagcatccca	tgaggtaagc	agcccatgg	aaggaccagc	900
tgcatccagc	aaagggctcc	aggtccctga	cgtagttgac	ggtgatggca	gaagtaaadc	960
tttgtattct	tgacagagact	ttgttctga	aagaggccaa	aagtcatttc	aaactgaatc	1020
tgacggataa	gataggggccc	atagctgaga	aaaataagta	gcgaagccga	tctaaaccaa	1080
ggtgtaactg	tgaaatagta	accatcttct	ttgcacgttt	caaaattggc	cctggacgcc	1140
atcgcaagag	gaaaattcca	aagctgtgca	gcagcggcag	taccattgga	agagttaaca	1200
gcctaccagg	actacttaga	aggggatcat	gtttattttg	atatataacc	cctgatttgt	1260
ttgtttttaa	aataaacgtt	attatgttag	tgatcacct	catggtttcc	ttggaacatt	1320
ctcctcta	cctctttgag	agagtgggag	ggagagattg	tgaggggaga	gagaagtgtt	1380
aaacagagat	gttcctaagg	aggaccagga	atcctaaatt	acctaataaa	cccacttgtt	1440
tatctccact	ccttgatagc	actgtgtgag	gtatgatgca	gtcaggtaaa	ggacaattta	1500
tctttgaaga	caaagataaa	ttcgagtccc	cattttcaag	agtcagttag	aagtaacagc	1560
ttgttttgtg	ggcactgatt	gatccttgtc	cgggcaagtg	gtccctccacag	gttatccg	1620
gcttggcaca	caacagacag	aggtgctggc	ggactgtgga	accagaccgc	ctgtggttcc	1680
cctcctcacc	ctgccacttc	ctagctgtgc	atccttgaca	actgattgaa	tcttgtgcct	1740
catttttctg	tggaattgaa	acaataccct	gacccattgg	gcaatggaga	tcaaattggca	1800
ttgatgcagg	taacatgctt	aacacagggc	ctgggtatgta	gtgggcattc	agtaagtggg	1860
agttacgatt	attattaggt	atcaaagaac	aaaactta	tgatcagaata	agcaaaccag	1920
ttggaataat	aaacgtagcc	tttagagtta	aatggcaca	ccctgatagc	cacacataaa	1980
ctgttttgtg	tatttttctg	tggatattcc	cagtctttat	ttctaatcc	ctcttcaggc	2040
tgagtgccta	aaatacattt	atatgtagtc	tcaattagat	tatgctgttt	cccccaaaag	2100
actacagtga	ctattatttt	aatttataga	acctcgaatt	gcatggaata	gctaccacat	2160
ctccctttaa	acctggtagc	ttccaaaact	tcttgatggc	gttttcgcaa	atgggtccct	2220
atgtgtcatt	gaaggagaca	gtgtatctag	gaaaagaaat	gaggatactg	agcaaggtgt	2280
tggtggctca	tgcttataat	tccagcattt	tgggagacta	aggcaggtag	ctagcttgag	2340
gccaggagtt	caagaccagc	ctggccaaca	caatgagacc	ccatctccac	aaaaaaaaaa	2400
aaaaaaaaacc	ctaaaaatta	tccaggcata	atggtgcata	ctagtagtcc	taactactca	2460
ggaggttaaa	g					2471

<210> 2028

<211> 467

<212> DNA

<213> Homo sapiens

<400> 2028

attggaagct	aaaagttata	aagtaaaata	cccaaagatt	taattaaatc	agtaagcatt	60
tgttgcat	tttaaccagaa	ttctttaatc	atttcctgac	agaatgactg	tgtattagat	120
ctctgcctca	ttgaaattgt	ctaggccccc	tgcatctgtt	ttgagcaaga	cttcagttga	180
gttccatctt	ttcattcttt	tacagtctgt	aaaggcctgg	tgagtcagcg	cattgaaaat	240
cagtcacatc	cttctgtcta	tgagttctta	gtggcccga	cattattttc	tcagatccct	300
gcatcattac	aattttccatg	tgtttaagtc	tcttctttat	gtttttttaa	aaaacaagtg	360
aagccagttt	ctcaaacagg	aggtgctcac	attctattta	ttctccaagt	gtggagtttg	420
tgcccagcat	gtgaccgaca	atacagaatg	aaaagcacat	gacaagc		467

<210> 2029

<211> 467

<212> DNA

<213> Homo sapiens

<400> 2029

attggaagct	aaaagttata	aagtaaaata	cccaaagatt	taattaaatc	agtaagcatt	60
tgttgcat	tttaaccagaa	ttctttaatc	atttcctgac	agaatgactg	tgtattagat	120
ctctgcctca	ttgaaattgt	ctaggccccc	tgcatctgtt	ttgagcaaga	cttcagttga	180
gttccatctt	ttcattcttt	tacagtctgt	aaaggcctgg	tgagtcagcg	cattgaaaat	240
cagtcacatc	cttctgtcta	tgagttctta	gtggcccgtg	cattattttc	tcagatccct	300
gcatcattac	aattttccatg	tgtttaagtc	tcttctttat	gtttttttaa	aaaacaagtg	360

aagccagttt	ctcaaacagg	aggtgctcac	attctattta	ttctccaagt	gtggagtttg	420
tgcccagcat	gtgaccgaca	atacagaatg	aaaagcacat	gacaagc		467

<210> 2030
 <211> 25426
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (8427)..(8427)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (22142)..(22142)
 <223> n equals a,t,g, or c

<400> 2030						
aagaatacaa	agttccagat	ggaatggttg	gattcagtaa	gtaacttgat	ttttaaaagtt	60
ttgaaaacat	gatcaaaaaca	tacttttagaa	tctttcaacc	aaaaaaaaaa	ttttttttt	120
tctaactagt	aattggcaga	ggaggtgaac	agatctcacg	catacaacag	gaatctggat	180
gcaaaaataca	gatagctcct	ggtaatgtta	cattctcatg	gtattttcag	tgtgactaga	240
aaactagctt	ttttttttt	ttaagccttc	tagtaacaat	aatgctactt	ttaatctttt	300
gacctgaagt	tatctgttg	ttttaaaattg	tagacagtgg	tggccttcca	gaaaggtcct	360
gtatgttaac	tggaacacct	gaatctgtcc	agtaagtttg	aaaaatctta	aaaatctact	420
taagtaacaa	cagcagaact	ctttgaattt	tgtctcttct	ctttgttact	gctttatatt	480
acactgtggt	ttcgtgcca	ccttccctca	aagtcctcca	actccttga	agtttatgcc	540
tcatgccttt	ctcaggtggg	gttcatcatc	tgaatcatta	aacacagaaa	atgggttaaaa	600
caactccata	tctactccag	tctctacttg	taaagccacg	tgtagccttg	agaagaatgc	660
acagtcagggt	cgactggtga	cacttaaaaac	tcagacatta	agctcaagtg	gactggtgtg	720
ttgcctgcct	ttccctagtt	ccatttcactt	ttccactcct	ctcccagggt	ctttaatact	780
gtatttcccc	acctccaaat	cttcagcatc	taaccccacg	ctctccact	taagcttatt	840
tactgagaaa	atggaagcaa	atgataagaa	gcttttcttt	ttccctacca	ctaaacctac	900
cagccttcat	ttttcctctg	ttcacatagt	actcaggtaa	tgctttcct	tttgtgttcg	960
agtgcctaaa	gccagccctt	tcttcctact	gaaggttcag	cttgagttg	tactttcttc	1020
tgcattgtta	gttctccctc	attactaggt	tttttctttt	cttttttttg	agacgaagtc	1080
tcgctctgtt	gccaggtctg	agtgcagggg	cacgatctcg	gctcactgca	acctccgcct	1140
cccagtagtc	tgggactacc	ggtgcatgcc	accacaccca	gctaattttt	gtattttttt	1200
agtagagaca	gggtttcacc	atggtggccg	ggatggcttc	aatctcttga	cctcgtgac	1260
caccacctc	ggcctcccaa	agtcctggga	ttacaggcgt	gagccacttc	ccccagcctg	1320
attttcttta	tggcactttc	caaataatgt	gttatbatt	tgacatgtta	tttttactta	1380
tttaatgaaa	tgaagccact	ctagcaggaa	ccctgtttct	ttgagtgcta	ttacccatt	1440
acctagaata	gcacctgcac	atagttgata	tttaaatatt	tgttgaatga	ataattgtag	1500
catatgagta	agcaaaatgg	tagtttaaaa	atgtaaataa	atcatttagt	tcttggaaga	1560
atcagtttaa	ttctgagata	acttttagcat	tagagttcct	tcttggaat	tttgactat	1620
tcttaaaaaa	aaaaattgta	tatctagaaa	atttttttgc	ataatctctc	aatctttgac	1680
ccttgatggc	attttctttc	agttaaaagt	aaaagcattg	ttaaagttag	catcaaggca	1740
cctaactctg	aactgggata	ggaggagtac	ttggttatat	tgttttatat	ttctctatatt	1800
gaataagctt	gggtatgcta	cagcttacta	tttaaatatt	aatttggtta	caggtcagca	1860
aaacggttac	tggaccagat	tgttgaaaaa	ggaagaccag	ctcctggctt	ccatcatggc	1920
gatggaccgg	gaaatgcagt	tcaagaaatc	atgattccag	ctagcaaggc	aggattagtc	1980
attggaaaag	ggggagaaac	tattaaacag	cttcaggtat	tgttattttt	gtgaaatggc	2040
tacttttgat	ctgttttgat	gccccatttt	gtccacttct	tttgtaaata	tatattattt	2100
ctatgattgt	aacaggaacg	ggctggagtt	aaaatggtta	tgattcaaga	cgggcgcgag	2160
aacactggtg	ctgacaaaac	tcttaggatt	acaggagacc	catataaagt	tcaagtaaac	2220
ttaactttat	actttataaa	gaaagagtgg	gttgaatggg	gttgggcaaa	atatgcatga	2280

ataattaa	tgttttgaga	catgctttct	aaattagcta	actttttctg	ctttagcaag	2340
ccaaggaaat	ggtggttagag	ttaattcgtg	atcaaggcgg	tttcagagaa	gttcgagatg	2400
agtatgggtc	aagaatagga	ggaaatgaag	ggatagatgt	aagtaaaaat	acccattcag	2460
aaatggttgt	atgctaattc	ataaatataa	tagtggtttc	tgtttttgtg	taagtagctc	2520
taacattggt	atccttttat	ttcaccttta	tacttttagaa	tacagaattc	tatatatctt	2580
gttacccctat	ttactataaa	tatagaatta	tatgtacttt	tatgatttga	ggcagatttt	2640
caggaaatgg	cgcttttttta	aaataactttt	ttttacttta	aaccctgaga	agctagcttt	2700
cttaataactt	agtctttttt	acataaggtc	cccattccaa	gatttgctgt	tggcattgta	2760
ataggaagaa	atggagagat	gatcaaaaaa	atacaaaatg	atgctgggtgt	cgcatcag	2820
tttaagccag	gtgagtacat	ataataatct	tgtaagtgtt	ggcagcagtg	agttttgaca	2880
tacatttatt	gtttaattaa	ttttgtttct	ttgttttgaa	gatgatggga	caacacccga	2940
aaggatagca	caaataacag	gacctccaga	ccgatgtcaa	catgctgcag	aaattattac	3000
agaccttctt	cgaagtgttc	aggtttgata	gaaagttaac	attttcattt	tttgttttta	3060
tggaaaagta	ttttccttca	tgaaatctga	agttacctct	atatcagagt	ctgcttgatg	3120
atgctttatt	aatggagaaa	gtttaaattg	ctttaaggta	aagatcttgg	agcaggaaga	3180
actactacct	taagtgtctac	cttattttact	cttgtagttt	taaaaatgt	tattacttta	3240
ttagggccca	gttcactctc	acatttcctg	atcagggtata	tgagagctgg	gaaaaataaa	3300
cttaataaatt	ttatcatgaa	acaaaagtat	ttctgtgctg	actcttcggt	cttgtctttc	3360
cctctctata	ggctggtaat	cctgggtggac	ctggacctgg	tggtcgagga	agaggtagag	3420
gtcaaggcaa	ctggaacatg	ggaccacctg	gtggactaca	ggaatttaat	tttattgtgc	3480
caactgggaa	aactggatta	ataataggaa	aaggcaatgt	attttaaaact	cttaatgttt	3540
taacacatta	ttcatttttc	tggacacttt	ctgttgctgt	cgtaaacaag	tggcaatgct	3600
ttttctctga	ccgtatttta	gtagaaaaga	attcttatgt	taatatgtaa	caagtaaaac	3660
ataaatgagg	gatctcatgt	atatttagag	aaagagcagg	attttaatct	tactagcttc	3720
tagagaaagc	gaactaagag	ataattatta	gcataagaaa	tgtcttttga	cccaaaaagt	3780
ggtttgagtc	ttttgtttg	tgcatttttg	tttttccga	ctcatatttt	aaaaatttga	3840
atgtttataa	gtgtattagt	ttatattttac	actgctttta	aaagcagtta	attcaaatat	3900
tttattataa	tcacattaag	tttatgttta	aacatactaa	gtaaatgtaa	atgtatttta	3960
agagaagcat	gaaatgcttc	ctaaaatttg	attttcagtg	tagaatatta	aatgaaaaat	4020
cttaatacaa	tattgtcaat	taggatactg	accaccat	atttttaatg	gccatttta	4080
ttgtgaccat	tttcttctaa	atagctccta	gtacaccctt	gaaaccttta	gagaaattac	4140
tgtcttttga	ttttaggagg	tgaaaccata	aaaagcataa	gccagcagtc	tggtgcaaga	4200
atagaatttc	agagaaatcc	tccaccaaat	gcagatcccta	atatgaagtt	atttacaatt	4260
cgtggcactc	cacaacagat	agactatgct	cggcaactca	tagaagaaaa	gattgggtgtg	4320
agtatacttt	aaacttttaa	tttttagtgt	agacccttag	actgtagtta	aattaagacg	4380
tttattcaaa	tacatcaaag	gaaaatgtat	cattactagt	cagcatttat	agatttcatg	4440
atatgtataa	tagataacaac	gtgaagattt	tccagcaatg	aaaataacct	aattaaatgt	4500
gtagttacag	gttttgagaa	caaccttaca	tttgggtgtg	gctagataag	aggagggtag	4560
tgttacctgt	aggcatgata	ttagtgttgg	tgtaggattg	tggaaacatac	ttgaaggaca	4620
tagttaacgg	gaattcatta	tttattaaga	ttttactcta	ctgaacccca	gcgaggcaaa	4680
caagataaat	cagatacatc	tgccactcta	cagtagaaat	tcataaatcc	taggttttgg	4740
actggctcac	agatcatctg	ggggtattaa	aatgtagact	atttgggtgc	ttcccactcc	4800
tacacataat	atacagagac	agacctgact	caaaatgtct	gggatagggc	ccagcatcta	4860
attttacata	gatgtttggg	tgatctgtgt	gcacagacaa	atttggaaat	ttttcctcca	4920
ggaaagtttt	ctgttagaac	aaaaaagtat	gaaacgcttt	gactgctttt	ttgtaagtga	4980
ggcagacagt	gtcttactgg	agttttttaac	acaaagtgtg	cagggggcat	cttaaattat	5040
tagaattgcc	taggaaaaat	tatttttgggt	gtttgccatg	ctgtgaatgg	ggtgggtgca	5100
aaacaagggt	gacactgttt	ctgtcacact	tgggaagaac	acaaatagat	gtacaaaaga	5160
cgcttaagga	acgtcttact	aaatgtacac	aaacattgtg	agttctgttg	tatggatagt	5220
ttaatgggtc	aaaaaatgaa	gaggatgttt	gtagagtaat	gatagaggtt	gatgccatgg	5280
caaaaaaatg	aatagcadc	atcttggttt	tttattttac	agtattagcc	taacatgcat	5340
gcgtcaggat	ttctgttggg	ttcatggaaa	aacaagatag	attgttttgg	agaagcaatt	5400
tgggtgtggtg	attaagagca	tggactctgt	agtcgggttg	cctcagttca	gaattctgtg	5460
aatcatttac	tggttctgtg	accttgagga	agttactcag	gcttttctg	gccttggttt	5520
cctcctgtaa	aatgaagata	atggatctca	cttcataagag	ttgtagggat	taaatgaatg	5580
ttcatgtgtg	tgtcacttaa	aagaatgcct	gccacataac	cctaaaaaat	gttgctactt	5640
tttcagtatt	atttttacta	cttggaagaa	ataggtcatg	gatagtaagt	gagagatgac	5700

agcaattgga	gatttaaaga	gacaagttaa	tagaagaact	ttaaagggtca	tgaagtttag	5760
tttccctatt	ttgcagtgag	aaattgacga	ccaaatgtag	tgttagcatt	ttgtccaaca	5820
tgtcgcctgg	ttgtgttaac	tactcagaag	gagcatttta	ggacagttaa	gtgtaatgtc	5880
tttgttggtc	taaccaaaaca	gaaatcagtt	aagcgttatt	aaatgtgtgg	catgcatgca	5940
tgataaggat	ataaaatatt	ctgattttatt	gaaggaatta	aaaagggaat	ttttgtgcta	6000
ttaaacatca	tgatacatga	aaggccaaaa	aggatataaa	ttattgatct	gaatgggatt	6060
ttagtgacag	aaataggttg	tgaggtggat	tttagtttca	tagtgaaaca	actagctatt	6120
aacgttatca	gtgaaatgtt	cagaagacga	tgatacagga	cccaagcggg	ttgggaatat	6180
attgtcaaga	cggttgtctc	atgttaggca	agtagatata	gagagaagag	ctgaagataa	6240
ggacctgatt	tctgtgagta	agatggaaaa	agatagtaaa	agtaagaatg	ataaaaggaa	6300
agggaactac	tgctgtccgc	aaacaagcta	aaggaaaatt	aattgctaata	ttaaaatttaa	6360
tttaatttaa	attgcattta	attgctactg	ctattgattt	tagtgaattt	tacatgtctc	6420
attattatgg	cagatgaaat	agtttttgca	aaatgaatga	ggaaagggaag	gaaaacctaa	6480
aattttgttat	ttgtgactat	aagagggttag	aaatggatga	ttattttggcc	gtagagttgt	6540
ttaaccatta	ctgtgttttt	ctgattttttc	tatgtcatcc	ttttttttgt	agggcccagc	6600
aaatccttta	gggccacctg	taccccatgg	gccccatggt	gtcccaggcc	cccatggacc	6660
tcttgggcct	ccagggcctg	gaactccaat	gggaccatac	aacctgtcac	cttataatcc	6720
tggaccacca	tgcccggctc	ctcagtaagt	atgggtttaa	gttctgggct	ttccccaag	6780
attctagttt	tgggactggt	ttttatgctg	atttttcttt	tcagtgggtc	tccagcccca	6840
tatgtcctcc	agggatgggg	aaatgcata	ccacactggc	agcagcaggc	tcctcctgat	6900
ccaggtagaa	gatgcttatt	atttgtgtgt	tatctgtatt	attttccact	cctgttacat	6960
tattaaattt	tctagtgttg	attctacatt	tgtatgcata	accttccact	actttactct	7020
ttcaacagtg	ttaggcactg	cctctacccc	agtgtatagg	actgacatga	atatgagctc	7080
tgtttttatg	gaattttctt	ctacttgctt	ttggcttatg	agttgatata	gtagaatgat	7140
aaaagctaaa	agctgcagga	aagagcagag	tgtcataggt	tttgataacc	agtgtgttca	7200
aatgtgtagt	atgttcattg	tgacattatc	tgtggaaaaa	tagtttttac	ttatttagaa	7260
aagtatgtga	taggggctgg	gcactgaggc	tcacgtctgt	aatccacact	attcagaagt	7320
ctgaggctga	ggcttgagac	cagcctgggc	aatatggcaa	gacccatctc	taaaaaatt	7380
tgttttaaat	tagccgggca	gggtgggtatg	tgctgtact	tgaggctgag	gtgggaggat	7440
tgcttgagcc	tagaagttct	agattgtatt	gagctgtggg	cacaccattg	cactcccctg	7500
ggcaacagaa	tgggatccca	tctcttaaaa	aattatgtat	atatgtaaca	gtctatataa	7560
atatatatat	ataacagtcc	acagagtgt	taagtattgg	ggcattaaac	ttccaaattg	7620
tcaaataaga	tatctcttct	agtactcttc	atattgaaac	ttcatgtgag	taaaaatcag	7680
gcctgtattt	aataactgca	tgctaaagcc	caaatacggt	taattatttt	ctatatccag	7740
atttattttt	atcctattat	attctggcat	ctttccatac	cctgtagttt	gtttccatc	7800
ttgggtcaaag	agtcattctt	tgaaaccaat	taacattttat	ttatgatcct	tttttctcac	7860
ctgctaccta	ccttttaggc	ctctttcact	cgtgtagttt	caaggaaaat	atactcaatt	7920
atggaatact	ttctacacat	aatacattta	tcccaaaaaa	acttgaagta	atttatgtaa	7980
atgaaattgc	ttgattaact	tcataggaag	tgtgctgttt	ggaatatgat	gacacagcat	8040
gacagttacc	aagcatgact	tgagttgtgc	taggatatag	gtgtgcaaag	ttggggttgt	8100
gttctatagc	aaaagaatgc	actcccagcg	taagcaacac	tgatggaagg	ggctcacagg	8160
gtacaggata	taatactctt	aacaactaat	ttttggagaa	tgaaagggt	tttctttccc	8220
tcttgttggc	tgattgggat	ggtataatta	atgggattga	agagtttgag	taggttataaa	8280
ggcagattca	tattgggtaa	cttgatctg	cccaagattg	tatttttgaa	ccactactgg	8340
ggtgttagca	tgattgagga	aaaatgatgg	gaataagaag	tggaagtggg	ctttgggtatt	8400
cacaagttga	attcctccac	ttggagntag	tagtgaaatc	cattactgta	agagctgggtc	8460
agtgaaatgt	ggttgacga	tggcctttgg	gcaagaagta	acccatttaa	ctaaaaccag	8520
ctggttggcc	ccactcagat	ttatcaaagg	gttactgggt	ccctgggggt	ggatattgct	8580
tatattagac	ttagaatagc	atactgtttt	aatattatat	gactaaaat	gtttcttttaa	8640
aaaaagagtg	gtctgttaat	ggatttatgt	agtgggtcaag	aatttagact	tcagagtcaa	8700
ataaacctat	atcagtccta	gtcctacagt	ttactaattg	tgagatgtca	agcaagtttt	8760
tgaactcctc	taagcctctg	ttttcttatc	tataaattaa	taaatgaatg	aatcggttg	8820
agtgaatatt	tagtaaattc	ttagtacata	ctagttattt	gtaactgtga	gactggtttt	8880
ttggtatggg	tttcacattt	gggagtagaa	ataccacttc	ctaaagtctg	ttttatctca	8940
aattctctat	ccaggcatag	tgtaaaagtga	aatacctaga	tttcttgatt	aatatacaga	9000
taatggccag	acgccatggc	taaaacctgt	gacgcagca	cttcggaagg	ctgaggcggg	9060
cggatcactt	gaggtcagga	gttgagagacc	agcctggcaa	acatggcgaa	acctgtctc	9120

tactaaaaat	acaaaaatta	gctggatgtg	gtggcaggtg	tctgtaatcc	cagctactta	9180
ggaggctgag	acaggagaac	tccttgagaa	ttgtctccact	gccctccagc	ctgggcaaca	9240
gagtggagaca	cttcattctca	aaaaaaaaaa	aaaaatacag	ataatgacac	tattggagata	9300
tgtaaacatc	caacataaaa	aagcagtaca	ttgggcaatt	gagaaaagtt	tggcaggtgt	9360
cctaataaca	ccttacaatt	atattacctt	gcaattttct	ttttctagaa	attccttgctc	9420
atTTTTtctca	aacttgacta	acctttatta	agcagctgag	aattgctact	gttcagaatg	9480
aaggtataat	agaaaattta	aaagttttta	ttgtatggta	ttcctagtat	aaaagacaat	9540
caagtttttt	ctggttttcta	gaagattgaa	aggtctcaaa	ctggttcgcac	ttcagttgat	9600
gtgggagatg	agtgagggtc	agtcaagtgt	agaggagaca	acatagctaa	aagccgagac	9660
acgggcatag	tgatttctga	aaagtacaag	cactgtgttg	tggctggagc	ttgggtgttg	9720
aagagataca	accaaaggga	gagatgaggc	tgaaatggaa	aggataagcc	aggggtttca	9780
ggctgttaaa	gatgttgaat	gataggctgt	acttaagctt	tgaacatcct	gaagattgca	9840
gagaatgaag	aatttcaagt	aggatgacat	caagtttata	acattcaatg	tgaaatagga	9900
tgaaatgtgg	ctaattctttt	ttaagattttt	tatatTTTct	cttcattgaa	aataaggaca	9960
aagttcattg	ttctaaaata	atTTTctttc	ttatacagggt	tagtccctag	aaatgttttt	10020
ctttagtcac	cttctagata	gagctgtttg	tgtttgaggc	gaaaccaatt	tagaaaaaa	10080
caagggcaca	ggatggtttg	agacagagca	ttggatttgg	agccaaaaga	cctgtattca	10140
tatcccagtt	atgccactca	gtagtTTTta	acctaggaaa	gtcacttagt	ctctgagact	10200
tggtttttct	taataaaaagc	tgatggtgac	aacaaaaata	atagaaaatt	taagttttca	10260
tatactTTTT	ttaatgttct	agttaatttt	gggggctgta	tatttgccag	agagctgggc	10320
gggggggtgg	tgtgtgtgtg	tgtgagagag	aattacagac	ttcacatgca	aacctgaac	10380
tttcatttat	tttagctaag	gcaggaacgg	atccaaattc	agcagcttgg	gctgcttatt	10440
acgctcacta	ttatcaacag	caagcacagc	caccaccagc	agccctgcagg	gtgcacca	10500
ctacaactca	aactaatgga	caaggtaact	acagaactta	ttgtatgtga	aagccaaaag	10560
ttgtgcttgg	aatttatata	gaagtacatc	actgtataat	acctaaaatt	tctgacatta	10620
tttaattata	atttaagcag	acttttccct	ttttaaattg	ttactttgaa	atagtttcaa	10680
actttcataa	aagttgtaag	aagaataccc	ggagcaccca	gatagcccag	ctgttaatgt	10740
tttattccct	tgtttactct	gttaccatct	atatcataca	tgtgtatctg	tatttatttt	10800
aaatatccat	tataattagt	tctgaaggaa	gctaattata	tccagcataa	ttagttctga	10860
aagaaatcac	tgaagactaa	actgtagaca	tgatgtcctg	ttgggtactt	cttcaaaaaa	10920
acataaccat	catacagccc	tccaaatcag	taagtcaaca	ttgatataat	aagttcttta	10980
tatcattatg	gatttctgat	ttttgcagta	ggttatat	tttaaagtatt	tttataattt	11040
tgataattga	atttgccctg	atTTTgcccag	tcaggggagta	tattcagggt	ggtgcctata	11100
tccttttgaa	atacctgtca	ttcttttaag	cactttccata	ctgtctggca	cagtaagatt	11160
gttattttgt	gctttctggg	ctccagccct	cgagtcagct	atTTTcttcaa	ggagctctta	11220
ttccttttag	tagagtatgg	tagtttagaaa	cgagacttga	gtatgcttgt	tgctactgag	11280
gtgtaattgc	ttctagcttc	tttcaacagg	cagaactagg	aaatatattt	acatacatgc	11340
atacctacat	acacacacca	aaaaacacat	aaacatcgat	atatgtatat	atTTTTtaaaa	11400
actatgttca	tatcaccaca	tccgttttcag	cattttgggg	ttttcaagcc	ttttcctttt	11460
ttgtacttgt	ttacaaacgt	gagaaacctg	gtgtcctcag	tgtatttctc	tatttgacat	11520
gcatttactt	atatgttcaa	cataaccagt	cttcaaacag	gttgggtttc	ttttctgtcc	11580
accacctctg	tacccccagt	accttctatc	tttggcactg	ttagggatgc	caccaccaca	11640
tagtacttcc	ctcctaccct	cactgtcaca	ttgcaggccc	ctgccagctc	ctgcacccaa	11700
ggaaacggcc	aaaattgcct	tttaaaaact	ttatctctgt	tttttgTTTT	gttttgcttg	11760
aacaaggaga	tcagcagaat	ccagccccag	ctggacaggt	tgattatacc	aaggcttggg	11820
aagagtacta	caagaaaatg	ggtatgtttt	atacatttct	tgaaaataca	tacttaatta	11880
aattgaaaca	aattattctc	ttcaggaaga	gaataattga	ataaaatcac	tggaacttga	11940
aacatatcaa	gacagttgta	aattatagtt	tttaaatttg	tggttatatg	gcaaggaaat	12000
ttttttttct	aattgcattt	gtcaaccagt	tattaattga	aactagaaaat	gtccttactg	12060
gtacatacaa	tattaacatt	actatacttt	tgacaatgac	agttatatat	attatcagtc	12120
taaatgacat	aaggttaaat	tttaatgtg	caggcgaaaa	ttgtgtgtga	taccattatt	12180
tttgctgcaa	gataagcagg	taagaagtaa	tctgcagtga	cggaaagtaa	ccaagtgatg	12240
gaaccagaat	ctggcttcaa	gagggctctga	gtcccaagct	tgtctcccaa	atTTTgtctct	12300
ttaggaacca	tttggaaact	gatactatac	ttctggacaa	atcactatat	ttcagctgct	12360
tttgctctta	gtcattttaa	attattacat	accacagcta	gatgtcacaa	atgaaagcta	12420
aattggtaag	cttggttatc	cttcactagc	agaaaaagaa	cctataggtg	gtagagtttt	12480
gtcataagag	aacggtctac	ttgggatttt	caatgttttc	tttgccaaaag	aatgtttctc	12540

attctccaca	gaaagaaaaa	tttcagaaa	ggtgatgatt	ttaatcttct	agatgtaaaa	12600
ttacatatac	ctgatgataa	agttgttttg	cacaactggg	ttctttttta	agaaaaattg	12660
tttttcctct	tagaatggct	tcctaggaga	gtcatgttcc	gtctctttct	gaggctttta	12720
cagattatgt	ttttgtgacc	tagcttaggc	agatctacag	tagctacaat	tcggaaaaa	12780
gaaactttta	acttaaaaac	agcatactct	gattaaggtt	ggttacataa	tttattttct	12840
gaactgggat	cctttttaga	atgaataggg	atgctattaa	taatcatgcc	ctgacagcat	12900
tgtggtcagg	acctgtaatc	aacttaactt	taattaaata	gcatcaccat	tttaaaagac	12960
ttgagcatga	gccacgtgg	gtggcacaca	cttgtagtcc	cagctgcttg	ggaggctaag	13020
gtggaaggat	tccttgaaca	caggagattg	agggcagcct	tggcatcata	gtgagacctg	13080
gtcacgtgtt	tgggttaaaa	atcactaact	tcaacttcta	ttttctcaat	gggtaatgtc	13140
ccctagatag	ggcccttagt	tattattaag	taggtaaaaa	taaaggctg	ttaatggatt	13200
taggtaatta	tggaggaatg	agtttggctt	ctgtgcttta	ttttaccata	ttgattatct	13260
gtaatatggc	cattaataca	tttactgttt	agtctttttt	gtattacttt	ttatgtttta	13320
ctcaaaatga	gtgggtgggt	ggaattctaa	tttttattgt	taagggaaga	cattttacct	13380
tgtctttaat	tttttatttt	tttttaccat	ttccctgcc	gtagagata	ctatactata	13440
tgctcttgaa	tccctgttag	gaaaacatgg	catagaata	attaaataat	aattagattgt	13500
taaataataa	tgctgtatga	ctaaagaacc	tccctacccc	accttttctg	ttgtgttctt	13560
gtagtaccac	aataatcact	tgtaattttt	atttatttat	ttattgaga	gggagtctca	13620
ctctcgccca	ggctggagtg	cgggtggcgca	atctcagctc	actgcaacct	ccgctctcca	13680
ggttcaagcg	attctccggc	ctcatactcc	caagtagctg	ggattacagg	cgcctgctac	13740
cacatccggc	tgattttttg	tatatttagt	agatacgggc	tttcatcatg	ttggccaagc	13800
tggctcaaaa	ctcctgacct	caggtgatcc	acctgcctca	gccttccaaa	gtgttgggat	13860
tatgggtgtg	agccactgca	cccagcctca	cctgttaatt	ttatgagcaa	aacagattag	13920
ttgggcaagt	ccttcacatg	catatctcgt	tgtgtgtgtt	ttttttaaga	cggagtcttg	13980
gtcttactcc	ccaagcaatg	gtgcgatttc	gtctcagtc	aacctctgct	tcctgggttc	14040
aagctattct	cctgcctcaa	cttcccaagt	agctgggatt	acaggcgccc	aaccacaccc	14100
agctaatttt	tgtattttta	gtagagacag	agtttcacca	tgttggccag	gctggtctcg	14160
aactcctgac	ctcaggtgat	ccaccgcct	cagcctcgca	aagtgttggg	attacaggtg	14220
tgagccactg	cgcttgccca	catgtgtata	tcttaaagga	aataatgcta	ggtaatttag	14280
tcaggtgctt	gatgagcatt	tgtcatcatc	atacggagtc	aatttgtctt	tttctataaa	14340
agtctttttt	gtaattgatt	agttgcttaa	ctgctttaat	ttcttctagg	taccttacct	14400
gtcatcagga	tctttttacc	acaaataaga	aacttaaaag	cataaaactt	ggttcagttc	14460
tcacatttct	taaatggaag	gagaaaggga	ataataggga	gatattctta	tctcaaagcc	14520
aactgttggt	gacttttcca	gtggcagggg	tatgatgcta	ggacttcaga	tttcttgatt	14580
ccccatccta	gtgccccttt	tgccaaacta	ggcaggcttt	cacagctttt	ggagccta	14640
ttaagttttt	cttggttaaga	acagaaaact	ccattcatag	attttaattt	gtcattatct	14700
gcttatattac	tgaaaaaaaa	aaaaaactat	tgaaaaacagg	tgtgggttaa	gtttcccaaa	14760
attaggttta	tatttcaaaa	caattctaag	ttcccaagga	taacaccaa	ctaagaggat	14820
aaattttttt	tttatttttt	tttatttat	ttttttgaga	tggagccttt	ccctgtcgcc	14880
caggctgaag	tgcagtggca	tgatctcggc	tcacttgtag	catccacctc	ccaggttgaa	14940
gcaattcttc	tgctcagacc	tcccaagtag	agaaaatctt	gataagattt	cagaggctta	15000
taagggaacag	cagtaaagat	gggtgttttt	aaagctagaa	tacagggatt	tttttaaa	15060
ccttaagaga	acaaacaggg	tttcaaaata	gaaaggagta	attcttgttt	ggagaagtga	15120
agacattttg	gaaaagtttg	acttgaggaa	ggccattatg	ataaggactg	atgtggtaga	15180
ctctgaaccc	tgaagaatct	ggtaccttaa	gcctaaagga	gggtagagtg	aggacttgtg	15240
ggaaaggtag	agttatatgg	gagacaact	gagtgtgaaa	atctattcat	gcaaggctgg	15300
ctcttaggct	ctaatagaat	cttgcaagct	aactctagag	caagtctttt	atctttggga	15360
tgaagaaat	ttaaggctaa	actttataca	ttataattat	aaaactataa	taaatattag	15420
ataatgttct	actgaagtat	aaactcaact	atctggcatc	aaacagtaac	tagccatga	15480
tcacaccact	gccactgtgt	tctggcctag	tgtgacagag	caagaccctg	tctcaaaaca	15540
aaatccagta	actaaagaga	ggaataaggg	gagcgcaagg	taaggcagta	catgtctgaa	15600
ggggcaggga	aagagttctt	tctctacttc	caactgggca	aaataaatca	catttgccct	15660
ttagatttga	agagtgaat	aaagcttttct	tgaacatctt	ttaagatttg	agtgtcaaat	15720
attaccaact	tatttaccaa	gaatttggtt	tttcttaaa	tctaaagtgt	ttactattag	15780
ctttccacag	ggatatagga	gtttgcagag	gttgtagttt	tttaagggaa	catcaatgaa	15840
ttttcttgat	gcatatgcct	gtttctacca	ttttacattg	ttaattgccc	tctaaaatga	15900
gtaactctta	caatgggggt	taaaacctga	agactattga	ttgctacctt	gatcaggttt	15960

ggtttcaagt	gtgcaccctg	taagagacaa	tgtgtggttt	tattgctatt	gtcacaccag	16020
tttttttagat	attgaaacct	gtttcagatt	tgtcttgta	gtgtcttgta	agaggaaaat	16080
gttaaaactta	cttcctcttt	gagaacagtt	atztatagaa	gacaggaaaa	tatgagaatt	16140
tttaatagta	tatgagagtt	ctctgttacc	aagaaaagag	ggtttttttc	aggcattttt	16200
aaagaatcat	aaatcttaaa	ttctttcact	cagttgcttt	gagtctgtga	cctgttttac	16260
aatggtgata	gactgctttc	tgaaactatg	aaattggctc	gttggcatg	ctcctacaaa	16320
cataaaaaaga	gcttcctgtg	tgtccatgct	ccagtatact	cgtctatggt	agttattttca	16380
caaagccaag	cgagttacaa	acgaaataaa	atagtgccta	agtaaagaaa	ctgaatagga	16440
gaacatatat	tctctcttct	caattttata	tttagaaaaa	tataccttca	gaaattgggg	16500
aaataggcat	cagacactca	gcttcatcat	tttttaaaag	tttgctgtat	gcgctttata	16560
tgtatgtttt	ttgtgtatga	accattttcaa	agtaagttgc	agacaagaca	gtttgctcta	16620
aataaaactca	atgtctgggc	acagtgggtg	acgcctgtaa	tcccaggact	ttggggaggcc	16680
aaggcaggtg	gatcacttga	gtccaggagt	tcaggacag	cctggacaac	atggcaaaaac	16740
cccattctcta	caaaaaaaga	gaaaaatgtc	agctaggcat	ggtgggcctg	tagtcccagc	16800
tactctagag	gctgaggtgg	gaggatcacc	tgagccctgg	gaggttgagg	ctgcagtga	16860
ccatgattgc	accgctgcac	tccagcctgg	gtggcagagt	gagaccctgt	ctgaaaaata	16920
ataccctcaa	tattatcaca	aacatacaga	ctatatttaa	atttccatag	ttgtcaggaa	16980
tatgtctttt	gtcgtctgtg	tgttttgttt	aattcagagt	acattcaaga	ttcatgcgtt	17040
gcattttcatt	gctatatttc	tttaattctc	taattcagca	aagtcacctt	atttggaaaa	17100
agacctgatt	gtgaaagctg	agttttatgt	gttttcattg	atcttgttct	ttattccttg	17160
tcaggttact	tttaataaca	ttgtgttgta	attggaataa	attattaata	cttttaacat	17220
cttattatgt	gtgtgtgtac	atacacttta	taggttacta	atcaggaaaa	agtcttggct	17280
aggtcttaat	acagtcttta	aatcattggc	tttaagtggg	cttaaagttt	ttcaaaaaatg	17340
ttctttttgt	aattctggaa	tcgaattaa	attatgccta	aatctttacc	ttccttagct	17400
aaagcagtgt	ggatttgggg	ttgattctgt	ttttttacta	ataatgacgc	tctagaacta	17460
aaagttaacg	attaattata	aggcaaaaag	aaaagagcgt	tctttttttt	tttctaattg	17520
cagagtagtt	tcttgacact	actaatgaa	tattttaaat	aaaacaggag	taattctgac	17580
cctctgtgct	tttgtcttat	aacctgtact	tacagtggat	gtaattttat	attaaagttt	17640
aggggttttt	ttttttggtc	aacaagggca	aacacaagat	tattcaaagg	cttgggagaa	17700
atattacaag	aagcaaggta	ttgtttttat	tagaaatgag	atgttgggct	tataatgtg	17760
gttacagcaa	gtttacagta	ttttttcaaa	ggtcaggcag	ttcctgctcc	gactggggct	17820
cctccaggtg	gtcagccaga	ttatagtgca	gcctgggctg	agtattatag	acaacaagca	17880
gcctattatg	cccagacaag	tccccaggga	atgccacagc	atcctccagc	acctcaggta	17940
taatgtaatt	gctaattttg	tgatttctac	tccagtctgt	tttctgcatg	tttactgttt	18000
gtctgttttg	gagtgtttgc	cttttaaat	tttatctggc	aaagtataat	aactatttta	18060
atgaagtact	acggtgtatt	gtttgggttt	ttttgttttt	tataatgctt	tccagcatct	18120
gagtggtgaa	tattttctga	atgcctttga	ttttaaaaa	aaattttctt	ccccaggga	18180
tttgcaaatc	atgcaagaag	ccaccacct	tttatattac	cactttttct	ttcttaagg	18240
attcactcct	gaattagctc	cattttcaagg	attttcttta	actttttgtg	tatttcttat	18300
gtatctcttc	tgcacagggc	caataataag	aagtggacaa	tacagtattt	gcttcattgt	18360
gtgggggaaa	aaaacctttg	ttaaatatat	ggatgcagac	gacttgatga	agatcttaat	18420
tttggttttg	gtttaaaata	gtgtttcctt	tttttttttt	ttttttgaaa	atgtacaaaa	18480
tatctatcac	tactgatagg	aggttaatat	ttctgtgtag	aaatgaaaat	tggtttgttt	18540
ttagtattta	gtgtagatgt	acacattcca	gcaaattgtat	ttgcattat	gtggttgatg	18600
ctttgtgata	taaatgatgt	ttttcaatgt	atactttcac	ttttaaaatg	cctgttttgt	18660
gctttacaat	aaatgatatg	aaacctcctg	tgtcggttaag	ttggatatgt	gggtatttaa	18720
aggattcata	atttcttagc	aatgataaat	taagatacat	atacacaaat	atataagctt	18780
tccccatgaa	atattgagtt	tttaaacact	ggcatgtttt	tcccccttg	cagtatagtg	18840
gtagattgga	ggatcttttc	cattttattgt	attggctcct	tcagcacaa	taatcctgat	18900
atcttcattt	tttttccttc	tgtttgatta	aaaactgcac	gtgtgtacaa	tgatcttttg	18960
gcatacttcc	attgcattaa	cagtgaat	tcctttttata	catgaccact	gtttcagacc	19020
tgtactgctg	ctataacagt	taacctttct	gttcttaatt	tgataatact	tgatttccaa	19080
gactgtttcg	gcataactaa	ttttaaacag	ttttcagata	gtgaatatga	gtagtcta	19140
aagaacagtt	tttttccatg	tgaagcaact	ctttcaatgt	atataatgtt	agtgtgtttc	19200
tttctaaatt	taggatagaa	aagtgaatag	tgtgcaaaaa	gtatagctac	attgcatctg	19260
ccattgaaac	ataaatgggg	tatggaaacg	ttcaagcttt	ttttttttct	ttatgcagta	19320
tagataagct	ttgttttgta	aatgcacaag	tccaatcatt	gaatcaactt	aattttttta	19380

tgtacttgaa	gtcattttat	tactctttta	cactatgct	gaagttctga	tattttgttg	19440
aaatccattg	ttttactctt	tgcatatttg	ttggctcttt	gcataattaat	atatttagact	19500
acatgcaaat	acagtctgtc	ttgccattgt	ctgttggaagt	gcaggtttga	tccagccagt	19560
atagaactag	ctctgtaggg	gtgaggagga	ctgtgctgtg	tatcatcctt	gattgtgttc	1962
cttcaaggag	cattgcaactg	taagtacatc	agaatgacaa	attgcatgaa	ctgcaacagt	19680
atctttttgt	caatgtttcca	cataatgcaa	atgccatacg	ttgtgtgata	ttatgttgga	19740
atacagtgc	gatatcttgg	aaaaccataa	ctgcctctta	atttaacata	gaataataca	19800
tagttctgta	ttttttttaa	agtgaagctt	atgggtaagt	attttttata	tgcttttagct	19860
atagctaaag	aaaactgata	cttaacaaa	ttgaatagta	ttattcactg	gtgctcctaa	19920
aatattgttt	ttcagtgtaa	aatatgcata	tcttctatat	ttaatatgaa	agtcttgaaa	19980
tgtatcagac	agaaggggat	ttcagtttgc	aaataatgag	caatgtagca	attttaacac	20040
atttcataaa	tatatatttt	gtcattgggtg	gagagcacca	tttgttgttt	tgaatatact	20100
ttaaaggaag	aggtacaagg	acataaatgt	tgagattacc	tacaggatgg	aaatagcagt	20160
acagttcatt	gtagatattt	tgaaatgttt	ttgattgttt	tatataacct	agagtgcatt	20220
cccttaccct	tatttagatc	tgcatatata	gttctagtat	gaagttaaat	agttaaggag	20280
ttagctattt	gttatcttta	agagtagggg	attgacgtga	acaattgcag	tattttgcac	20340
gtaactgttt	cttttaggac	cttttaggaa	agtggatgat	ttattaattg	aactgaagaa	20400
gtagttcagt	tgaattcagt	atcataattc	acaattggag	gctgttgatt	ttgttcatt	20460
taagggttaa	aatctttatt	aattgcaaac	agtgcattaa	tttatacttc	acagtgcctt	20520
cccagacctt	ccaccttagg	ttctgctgca	aaaagcacca	ggtaagcaca	acctaaggac	20580
atatataaat	aaatatttca	atacattaat	gttgtccctg	tgagggtttt	gtggttgtgt	20640
attcaaaggc	aatctgctac	tgcttcccca	aaatgtattt	tgttatttta	tgctaccatc	20700
ttagtggaag	gtctgtaagt	tgtaaagca	actgtttaca	tttctgggta	atgtttttta	20760
ttttactttt	ttttttttat	taagacaaga	aaatgatgag	tagattgctg	cagtaattga	20820
actacatcca	aatctttttg	tattttttcc	ccaaatatag	aagtgttaa	attaagaaa	20880
gacaattaca	cagttttcaa	gatttaggaa	atcacttggt	tagaaacttc	aacagccttc	20940
acaatctggt	ttatatgatg	gacagaaaat	ttctttgcc	tccaaaatta	taatttcttt	21000
atttttttct	tattcttaaa	ctataataat	tcagtaagga	tattatgggt	tagaatttta	21060
ttatgatttt	tttcttagac	aaaagttata	tgctgaagaa	ggaaaaagtt	ataaggcagt	21120
atgttttgat	aaaaggcatg	tgcatcagtg	aaatgttaac	tgtatagcaa	ataacccttc	21180
ataatctgta	gtatcagtat	ttttctgatt	taataattat	taataactga	cgctgcattt	21240
aatttttttg	ccagtttaaa	atgtttgtgt	gtttttatag	atgttttaa	ctggtacata	21300
ttttgagtta	agttgaatgt	atgaaagcag	catcttatca	gttttgttta	ttcgatttct	21360
aaaatgtgct	gatcctttta	aaactcctgc	ttatctctgc	aacaaagaaa	aatattcaaa	21420
aatactgcct	tcattttcac	acacagtgct	gaagatgctg	caagcaccaa	atcatagctc	21480
ataaaatcag	gtcctgagat	agttacccat	aaagaggaat	cctttgagtg	tatgccattg	21540
gtgagccgat	gagcatggac	catagaaggg	ctcaatgtag	aaggtaaaat	tggcaaatca	21600
taattgagaa	atagcaaatg	tattcccata	cataaatatg	tatagggtgt	aatgtacctg	21660
cttttgatca	cttttcattt	taaagtgcct	ttcacttgat	cttaaatgtt	ccatgaactg	21720
ttaaatttct	taagttacat	agttactaca	ccacatttat	gtgtatgtta	tgttttaata	21780
gtcaatgata	ggtatgtaca	attgataata	taaaggggct	cattgaaact	tgagagcctg	21840
ttgagttttg	gttagttgta	gattgcattt	ttataaaaaa	aaatacagat	agattgatga	21900
taatagatat	tggggcattg	tttctgtctc	atgagaattc	ttttattcat	taccataagc	21960
cttcactgat	actataagca	ttatttttaa	tgacgtctgat	cttaagtctg	aaataaatgg	22020
aaagcagaaa	agtgagacca	gttgatttga	atgcatttga	tattagtgtt	agaaacaatg	22080
tatagtttag	attgaaactg	aactgactta	ttagcactt	aaacaaaaat	tgacaatgtt	22140
tntagttttt	tttaagacag	cttagtggtg	tgatacttag	aattctatgg	tttgatgttt	22200
cttttagaaa	tgagaagtat	agttttattt	tttaatatata	aaaatgggtt	taatactaaa	22260
actagtaatt	tgatactagt	tgttttataa	cattgtaaaa	tatatctttt	aaacaaatta	22320
tcttggtagt	taattcataa	gggtgggttt	gggtaggaat	agcagagtac	tttcagaggg	22380
aaaggggagt	cattcagaag	tgatagcatt	ttatttgttt	gaataactctg	ccagtaaaat	22440
cagctgtact	tagaaaagta	tctgttgtgt	agaataatga	tgtagagtgt	actaatcagt	22500
gaggatgtct	tgttttttatt	ttctgcmaac	tctgcctcac	tttaaaatgc	attataacaa	22560
tacctaatta	aagataattt	tggtcttgaa	agttacctta	ttttttgttg	agttagtgc	22620
ttcatttttt	ttgccacaat	ataagctttt	gagggatttt	tttaaatggg	tgcttttaat	22680
aagcaataaa	atcccagggt	tttattttct	tcagtgtatc	ccctatagaa	actcttaaat	22740
gtattggcgc	atatatatat	atatattttc	ttatgcatgc	tcgatgcatt	ttcgtcctga	22800

gaaaaatggt	ctctacagaa	actaccctg	tgtaaaaaga	agattggctt	aaaatggcta	22860
ctgtgatggg	aacagtgtct	tagggagatg	cagcttggac	ttgaggtaaa	ttgaatactt	22920
tacaactgtg	gttttagagt	tgctttaatg	acattgtatg	taaaagggtca	catgattgct	22980
gtaattttgt	attcattatg	gtttcctcaa	taaatgtaca	ttgatgacta	ttataaagga	23040
gtgctttgtg	ttttttatatac	atatattaca	tggtaaaatt	ttctacttga	ctgggttttt	23100
ttttatgttt	actgtgagaa	aaaatgattt	taaaaagttt	taatgataaa	aggtaacat	23160
ctggttgcac	aagtcttaaa	atacagaaaag	acttttaaat	acagaagtta	ctttatttgg	23220
gttcacgttg	taaaataaaa	ttgtcttcca	gaaaattaaa	atataaaaca	acttaataga	23280
acgtaatagc	taattattta	caaactcatt	ttaaagacta	gaattttaaa	tcgaagggtg	23340
tgccactttt	tccctaagtc	tgatacactt	agatcttgaa	gccttcgact	atgttgaaag	23400
tgttttctct	tgcggtgaact	attaatagaa	agttttttca	ttaaaatata	atttgttcag	23460
gcaagatcac	aacataaatt	tgctttataa	atttaataata	tattacatac	gtttgaaaaa	23520
taacatgttt	aatatctcca	acactcaaca	ctgtatagcc	attctttag	tcctttaatt	23580
tttggttttc	tccatgctcc	tccccctttc	ctctgaaaag	agtacagtt	ttccccaccc	23640
cgctccaatc	ccaatatatc	tgcttcagaa	agactttgaa	actacaacaa	ccaaaatggg	23700
gtactactaa	agaaaaagtc	cactcaaatt	gataggttcc	aaattaatta	tctcagctat	23760
ttcagcctaa	ttttagggtg	aaaaagctca	gaaatgacat	tccttcacgc	aaaataatgt	23820
attctactta	ggtttgtgtg	tttttttttt	gtttttgttt	tttaaacata	gttgctgtaa	23880
acgtctatgg	gaaatacagt	ctttataata	ggttctgata	gaataattga	gtaattcccc	23940
cccataagta	catttttattg	actgttactg	cataataggc	gtaaatctg	atgcttattt	24000
ggaaaagaag	taggcattct	ttagatgagc	tggtgcttga	agactgttat	gaaaaggaat	24060
aagaagtcag	catagtggca	ctcctgggtt	ccttttttgg	ccccgccaca	gaaaagatgg	24120
atgtagtaag	aaagttggag	tgaaagagaa	agttccaggg	agaggggagg	ggagctagta	24180
gtcatcagct	aaaaaagaga	agaagaaaag	tgatttttaag	gaaaaaaaaa	ttaatagaat	24240
aaaagataaa	aagagtgtatt	aattcttact	ttcaatggta	agaatacagg	tactagctgc	24300
agatccttta	ttgttgactg	ctttacacat	atactctcct	ccatcttctg	ggaaagtttc	24360
tggttaagtaa	aggcagtaag	tttctcccc	ttcaaatat	tgatagtctt	ctccatcctg	24420
cagtatttct	ccttcaaacc	accatgtaat	ttctggttgg	gttctcctgt	tactttaacc	24480
gtaaatctga	ctggctcact	gtctacaact	gatgtgtttt	taagaggctt	cttgaaccat	24540
ggagctcctg	atctggtttg	ctcttcatct	tcagcagtg	agccattcat	gatgctacct	24600
tcttctcct	cctcctcttc	tcttttctgt	attaaaataa	atgcattcag	gttggcattt	24660
atagtatttt	cagggcagcg	atttagtaac	aattttgaaa	tgaaattttt	ttttttaagt	24720
aaagaacata	caagtgtgcc	tactacaaag	tgtacttaac	agtacattcc	agtgacttga	24780
aagaaaacca	ttaaaacatt	tttttaacct	acctaatat	aaaactatgg	gttttaagag	24840
ggcatctttg	gaaaataaag	gatacataag	cctgggtacct	tttgtagtgc	tgcatcaatt	24900
tccctttgtt	caaactgcat	gcgtagtaac	ttttgttctt	caattcttct	ttgttcttct	24960
tcttctcttg	ccttagccat	ttgttcaaatt	ctagctttca	tattcacttt	gtgagtaaat	25020
ggagcctcgc	tttttcttgc	aggcctaaca	tcaacatcat	cttctgcaa	gaaagtgggc	25080
caagattaac	aattgcttgc	cttctaaaaa	caaagaagcg	ttactagtgc	taaagggtgt	25140
tagaagcaca	aaatgattaa	catgtttata	atgcatattt	ttgctacact	gcagacactc	25200
agattttttt	taactctcca	gttcaggaaa	agtgatagat	acatttatga	agcattctct	25260
tagttataga	ctttttctcc	aaatgtaaaag	atcacatat	cactgggac	ctagcctgtt	25320
tgctctacca	actctgcttg	gttttgatag	cacttaactg	aaaaagggtca	gaatgctata	25380
cattctaaat	aattgttaaa	agtactccct	tgattcctgt	aagtc		25426

<210> 2031

<211> 286

<212> DNA

<213> Homo sapiens

<400> 2031

tagaagaaca	ggggtgaatt	agagtaactg	ttaagatgac	attctctaaa	ctccacttca	60
acttctttac	agttaatgcc	ttcagactgt	tccattcacc	atcccttctt	cacttgatgt	120
gtcatcttaa	atttcttaatt	ttactactc	aagtaataag	atcatatttt	ttgacatgag	180
tctgagccta	gaaccttagt	ttaagccatt	gggagacatt	agacttccat	ttttattaat	240
agattatctt	ttatttgtaa	acaaagtatc	tttcattgaa	gga		286

<210> 2032
 <211> 1800
 <212> DNA
 <213> Homo sapiens

<400> 2032
 tctcaaacat gcacgtgtac ctttaggatg aatttctgca attggatgtg ccaggccaga 60
 gcgtgtgcat ttgtggcttt ggttgacatc acctagtcgc ccttcctggg gcctgtgctg 120
 gtgtactctg aggcgcgatt gtgtgaaagg tgggcgaagg tgccctgttcg accacatcct 180
 cactggtaga ctgggtcacc acagttttgg aaagggtgaga aatggatatc aaacatagtt 240
 tgaatttgca tttcttttac tgggaaggag gctgcgcgtg tttcacatca gagccatgtg 300
 tgtttgtggt tgttgaactt tctctcttgg attgctagga gtgctttatg tattagggaa 360
 gcagacttcc ctaatgcgtg ataacgcgtg cagatactgt ttccaagttt tgttattttg 420
 tcttttaaat ttgtttttgc atttgtcttt tcaactttgat ttttgccagg ctggagtttt 480
 gatgtttatg tggtcatagg tgtgaatatt ttcttttgtg gcttctggat tttgagacac 540
 agtggctata gaaccactgt agccaaaagt tatgttttct tttggtttca tatactttgc 600
 tttggtcctg tcttcttgac tttattttaa atagtaagat attcttacta catttttcca 660
 ttgcccatag ctggaaggag attgtaatta tcaccaaaga tgaaaaacta aggcattgtc 720
 tcagcagagg cagattagac ttttaagttag aggcctgtcc ttggtgcaga ggcctgtgag 780
 cgaccgggcc ccacttgccc tgcacaccat ggcgtggatt gtgggagtc acagggaaga 840
 cctctggcct tgctgggagc tgggggtacgg ttcttagagt gccattctag agtggcttcg 900
 cgtactggta atgaacgccc atcaagtggc cttgggaatt catgagccgg atgatgatga 960
 cttcgccggg gaaaagcaaa tcccaaatag gttgttttct gtgcattcca gtcccaattt 1020
 ctcttccaag taattattag atgtgccaag cctgttacgt ttattactta cagaattgtt 1080
 tttgtctgtg tgagtttact gaggacttag ggggttggtat gtgaggagg gagccccct 1140
 tctcctgtgg gcaactctagc actcttaata atcagtatta aacatgttga aggccataaa 1200
 ggaaataaacc ttctcttaaa aacaagttag agtcagtcataaaaactgttt gcctagacct 1260
 tgatcactta aaataagatc ttagatgtga tgtgtctttg tggagtattt cctgtggctc 1320
 gggagggtgt catgagagtg ggggtctgagg gacagtgagg ggtgaaggaa aggtgggaga 1380
 gagggccttc agtgaactga ccaaagactc acagacactg ggtgtcttgg tgatgggtgc 1440
 acatggcctt tcttttgtga ctgaagctgt gtggccttca tcccacaggg tctgccctct 1500
 ccagataaatt ctgtcactga acttcaaaat gtcaattgaa cgatagcgca gtctcttaac 1560
 aatgcttcag gacagataat agagctgtgc gggcagcctc ggtgacagtg ttgggaatct 1620
 gcagaatggc tttgtccact tctttccttt cagaagagac attgaacctc ggcattggtg 1680
 ctcacgccag gaatcccagc atgttgggag gctgaggttg ggggatcgga ttgcttgagg 1740
 ctaggagctt gaggtcagcc tgcgcaacat agtgagaccc tgtctctacc aaaaaaaaaa 1800

<210> 2033
 <211> 1776
 <212> DNA
 <213> Homo sapiens

<400> 2033
 tctcaaacat gcacgtgtac ctttaggatg aatttctgca attggatgtg ccaaggccag 60
 agcgtgtgca tttgtggctt tgggtgacat caccaagtcg cccttcctgg ggcctgtgct 120
 ggtgtactct gaggcgcgat tgtgtgaaag gtgggcgaag gtgcctgttc gaccacatcc 180
 tcaactggtag actgggtcac cacagttttg gaagggtgag aaatggtatc taaacatagt 240
 ttgaatttgc atttctttta ctggaaggga ggctgcgcgt gtttcacatc agagccatgt 300
 gtgtttgtgg ttgttgaact ttctctcttg gattgctagg agtgctttat gtattagga 360
 agcagacttc cctaatgcgt gataacgcgt gcagatactg tttccaagtt tttgttattt 420
 gtctttttaa tttgtttttg catttgtctt ttcactttga tttttgccag gctggagttt 480
 tgatgtttat ttggtcatag gtgtgaatat tttcttttgg ggcctctgga ttttgagaca 540
 cagtggctat agaaccactg tagccaaaag ttatgtttgc ttttggtttc atatactttg 600
 ctttggctct gtcttcttga ctttatataa aatagtaaga tattcttact acatttttcc 660
 attgcccata gctggaaggga gattgtaatt atcaccaaag atgaaaaact aaggcatgtt 720
 ctcagcagag gcagattaga ctttaagtta gaggcttgct cttggtgcag aggcctgtga 780
 gcgacccggc ccacttgccc ctgcacacca tggcgtggat tgtgggcagt cacagggaag 840

acctctgggt	ttgctgggag	ctgggggtacg	gttcttagag	tgccattcta	gagtggcttc	900
gcgtactggt	aatgaacgcc	catcaagtgg	ccttgggaat	tcatgagccg	gatgatgatg	960
acttcgccgg	tgaagacaa	atcccaaata	ggttggtttc	tgtgcattcc	agtccaatt	1020
tctcttccaa	gtaattatta	gtgtgccaa	gcctgttacg	tttattactt	acagaattgt	1080
ttttgtctgt	gtgagtttac	tgaggactta	ggggttggtg	tgtgaggagg	ggagccccc	1140
ttctcctgtg	ggcactctag	cactcttaat	aatcagtatt	aaacatggtg	aaggccataa	1200
aggaaataac	cttctcttaa	aaacaagtta	gagtcagtca	taaaactggt	tgctagacc	1260
ttgatcactt	aaaataagat	cttagatgtg	atgtgtcttt	gtggagtatt	tcctgtggct	1320
cgggaggtgt	gcatgagagt	gggtctgag	ggacagtgag	gggtgaagga	aaggtgggag	1380
agagggcctt	cagtgaactgt	accaaagact	cacagacact	gggtgtcttg	gtgatgggtg	1440
cacatagccc	ttcttttgtg	actgaagctg	tgtggccttc	atcccacagg	gtctgccctc	1500
tccagataat	tctgtcactg	aacttcaaac	tgtcaatgga	acgatagcgc	agtctcttaa	1560
caatgcttca	ggacagataa	tagagctgtg	cgggcagcct	cggtgacagt	gttgggaatc	1620
tgcagaatgg	ctttgtccac	ttctttcctt	tcagaggaga	cattgaact	cggcatgggtg	1680
tctcacgcc	ggaatcccag	catgttggtg	ggctgaggtt	gggggatcgg	attgcttgag	1740
gctaggagct	tgaggtcagc	ctgcgcaaca	tagtga			1776

<210> 2034
 <211> 110
 <212> DNA
 <213> Homo sapiens

<400> 2034						
cgtactcaat	gtgaagataa	cgagaatgaa	gaactttatg	atggttcact	tccacttact	60
gaataactaaa	tatatcttct	ctttcttatg	attttctttt	tttaattaaa		110

<210> 2035
 <211> 110
 <212> DNA
 <213> Homo sapiens

<400> 2035						
cgtactcaat	gtgaagataa	cgagaatgaa	gaactttatg	atggttcact	tccacttact	60
gaataactaaa	tatatcttct	ctttcttatg	attttctttt	tttaattaaa		110

<210> 2036
 <211> 148
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (136)..(136)
 <223> n equals a,t,g, or c

<400> 2036						
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	60
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	120
aaaaaaaaaa	aaaaanaaaa	aaaaaaaaaa				148

<210> 2037
 <211> 152
 <212> DNA
 <213> Homo sapiens

<400> 2037						
aaaaaaataa	aaaaaaaaaa	aaaaaaaaaa	aaaataaaac	aaaaaaaaaa	tataaaaaaa	60

```

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa caaaaaaaaa aaaaaaaaat 120
ataaaaaaaaa aaaaaaaaaa aaaattaaag ag 152

<210> 2038
<211> 151
<212> DNA
<213> Homo sapiens

<400> 2038
aaaaaaaaa aaaaaaaaaa gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaacaa 60
aaaaaacaaa aaaaaaaaaa aaaaaaaaaa taaataaaaa aaaaagagaa aaaaataaaa 120
ataaagaaat aaataaaaaa aaaaaaaaaa a 151

<210> 2039
<211> 202
<212> DNA
<213> Homo sapiens

<400> 2039
aaaaaaaaa aaaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaa aaacaaaaaa taaaaaaaaa agaaaaaaaa aaaaaataaa aaaaaaata 120
aaaaaaaaa caaaaaacaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaacaaaa 180
aaaaataaa acaaaaaaaa aa 202

<210> 2040
<211> 158
<212> DNA
<213> Homo sapiens

<400> 2040
taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa caaaaaata aaaaaaaaaa aaataaaaaa 120
aaaaaaaaa aataaactaa aaaaaaaaaa taaaaaaa 158

<210> 2041
<211> 126
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (9)..(10)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (14)..(14)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (20)..(20)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (95)..(95)

```

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (107)..(108)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (110)..(110)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (118)..(118)

<223> n equals a,t,g, or c

<400> 2041

gccaaaaann	aaanaaaaaan	aaaaaaaaaaaa	aaaaaaaaaaaa	aaaaaaaaaaaa	aaaaaaaaaaaa	60
aaaaaaaaaaaa	aaaaaaaaaaaa	aaaaaaaaaaaa	aaaanaaaaaa	aaaaaannan	aaaaaaaanaa	120
aaaaaa						126

<210> 2042

<211> 77

<212> DNA

<213> Homo sapiens

<400> 2042

aaataaaaaa	aaaaaaaaaaaa	aaaaaaaaaaaa	aaaaaaaaaaaa	aaaaaaaaaaaa	aaaaaaaaaaaa	60
ataaaaaaaa	aaaaaaa					77

<210> 2043

<211> 964

<212> DNA

<213> Homo sapiens

<400> 2043

ctcacaaagt	aatatctctt	gcctttttcc	tctcggagtg	ttcctgcggt	ttgtgatctc	60
tcttagctct	ggtagcctgt	tcaggcctta	aggtatctgt	tcggtattat	gtggtcaagt	120
agctgggacc	acaggatcac	aacaccacgt	ctggctaatt	tttttttttt	tttttttttt	180
ttttgtaga	gatggggttt	cgctatgttg	gcaggctgg	tctcaaactc	ctggcctcaa	240
gcaatcttcc	agccttgcc	tcccaaagt	ctgggattac	aggtgtgagc	caccacgtct	300
ggcttgagg	gcttattaaa	acaccgattc	ttagcctcac	ccccagagtt	tctggttagt	360
aggtcttggc	agggctggag	aatttgtatt	tccacacctt	ccttggtgat	gtgttggttg	420
tagttcagg	agtacatgtg	agaggaaccg	tttagatagt	aaaaactgca	aacctgaaga	480
agaatagaag	aatccttatt	ctgtgctctc	ttagatttag	tttcctcatc	tatgatcaat	540
aactattcat	ttcttcctca	tttccaataa	cgatttgctg	cttttaagag	caagagatca	600
cttttccttc	atgttgtttt	gctagtggca	aatcagaaat	ggtttcgcc	gtattcactg	660
atcttgtaat	cactctcgga	atccagctgc	atctctagt	tagagttttg	ggtcaacaag	720
aataatgctg	agcttaaaga	attggactca	gtctcttgaa	gtcaggggtt	gatgagaagg	780
tggctcta	ctattcattc	aacaacttcc	tattgagcac	ctgctatgtg	ccaggtgtg	840
ttctagccac	taagatagag	caggttaataa	catagggcca	ttgtccttat	ggaatttgta	900
ttttagtggg	gtgaataaaa	aagggcagtc	taggtggggc	ccagaaatag	aaaaatagaa	960
aaaa						964

<210> 2044

<211> 964

<212> DNA

<213> Homo sapiens

<400> 2044

ctcacaagat	aatatctctt	gccttttttc	tctcggagtg	ttcctgcggt	ttgtgatctc	60
tcttagctct	ggtagcctgt	tcaggcctta	aggtatctgt	tcggtattat	gtgggtcaagt	120
agctgggacc	acaggatcac	aacaccacgt	ctgggctaatt	tttttttttt	tttttttttt	180
tttttgtaga	gatgggggtt	cgctatgttg	gccaggctgg	tctcaaactc	ctggcctcaa	240
gcaatcttcc	agccttggcc	tcccaaagt	ctgggattac	aggtgtgagc	caccacgtct	300
ggcttggagg	gcttattaaa	acaccgattc	ttagcctcac	ccccagagtt	tctgggttagt	360
aggtcttggc	agggctggag	aatttgtatt	tccacacctt	ccttgggtgat	gtgttgttgg	420
tagttcaggg	agtacatgtg	agaggaaccg	tttagatagt	aaaaactgca	aacctgaaga	480
agaatagaag	aatccttatt	ctgtgctctc	ttagatttag	tttctctcatc	tatgatcaat	540
aactattcat	ttcttctctca	tttccaataa	cgatttgcgt	cttttaagagca	agagatca	600
cttttccttc	atgttgtttt	gctagtggca	aatcagaaat	ggtttcgccca	gtattcactg	660
atcttghaat	caactctcga	atccagctgc	atctctagt	tagagttttg	ggtcaacaag	720
aataatgctg	agcttaaaga	attggactca	gtctcttgaa	gtcagggggt	gatgagaagg	780
tggctctaata	ctattcattc	aacaacttcc	tattgagcac	ctgctatgtg	ccaggtgctg	840
ttctagccac	taagatagag	caggtaataa	catagggcca	ttgtccttat	ggaatttgta	900
tttttagtggg	gtgaataaaa	aagggcagtc	taggtggggc	ccagaaatag	aaaaatagaa	960
aaaa						964

<210> 2045

<211> 236

<212> DNA

<213> Homo sapiens

<400> 2045

tgggtggatc	acgaggtcag	gagttcaaga	ccagcctggc	caacgtggtg	aaccctcatc	60
tctaataaaa	atgcaaaaat	tagccaagca	tgatgatgcg	tttctggaat	cccagctact	120
cagtgaggct	gaggcaggag	aatcgcttga	acctgggaaa	cagaggttgc	agtgcactca	180
gattgtgtca	ttgcaactca	gcctggggcca	catagtgtga	ctctttcccc	catccc	236

<210> 2046

<211> 236

<212> DNA

<213> Homo sapiens

<400> 2046

tgggtggatc	acgaggtcag	gagttcaaga	ccagcctggc	caacgtgtg	aaccctcatc	60
tctaataaaa	atgcaaaaat	tagccaagca	tgatgatgcg	tttctggaat	cccagctact	120
cagtgaggct	gaggcaggag	aatcgcttga	acctgggaaa	cagaggttgc	agtgcactca	180
gattgtgtca	ttgcaactca	gcctggggcca	catagtgtga	ctctttcccc	catccc	236

<210> 2047

<211> 3722

<212> DNA

<213> Homo sapiens

<400> 2047

cagatgcttc	ccactagaga	agctaagaag	ctgtggcagc	cacagccggg	acagggcctg	60
gcctccagcc	cagggctttc	cctgatgtcc	agcctcagct	gcctcttcct	gcctcatccc	120
acccgcaaga	ggagctgggg	accagagaca	gagacacaaa	ctcatttga	atgtgaacct	180
tggcaccatg	gagatgtca	gggtgagccc	agtctgctct	ctcattagta	tgaatttcct	240
tgtgtttctg	tctctctcct	cttccttggg	atcagctgct	ggccccaggt	tcctccagag	300
aggagcgggg	gtgggtgggg	tggtgctgat	taaatctgag	gacatgacat	tgagcgagag	360
aagcaagggg	agctgctgac	ctccctggat	ggataaccat	caggaggcgg	tagcagagtc	420

cacataccat	caccttctcc	tgcagatgtt	ggttcagcca	cctttcctct	accacagatg	480
ggctatgtgt	tttcaaagca	gaagagcaga	gacggcagag	aaccccagct	ggttcccagg	540
caaggataat	gaatacagtc	ccctggaatg	tgggggctg	ccgcctggcc	ctccccacca	600
ccaactgccc	cccttcagca	gactcctctg	cttccccaag	caggtgggccc	aggctgttgt	660
ctgggaatgc	cacctgccac	cagggcacatg	agcagccagg	ccaggatgag	gtgggcagca	720
gaggctgctg	cagcctgggg	caggggtcag	cacagcatct	ctccatccct	gcctttgggc	780
agcccatccg	cccacgcgtg	gatccgccaa	agcaaagccc	tgccttctct	ctcgcggggc	840
gctcagagtt	gcacactctg	ggttggtctt	tgatgacacc	ggccttggtg	aaggagcaaa	900
aaaacaaacc	tttaatgtgg	acctgcaaca	ccttccattc	cacttccatt	atgtaatctt	960
gggagtcact	caactctcca	agcctcagtg	ccctcctctg	taaagtgagg	ccgtgaatag	1020
ttccgactcc	acagcattgc	tgtgtggtgc	aaataagaaa	atacacttga	cgcaccagca	1080
cgaggcctgg	cacctgcctg	gttcctatga	tctctgtgtg	ccaagccctc	agccaggcaa	1140
agtgtccccg	ggtttttctc	cagttctatg	gcattgaatc	ctaacaaaac	ccagcaaggg	1200
aggtgtcaca	ggacttcctg	gtacgcgcca	ggagactgtg	gctcagaaaa	caggtgttga	1260
ctctgtctcg	agcagtctgt	aaatgtggag	ttggggctca	cccccgcccc	caactcccat	1320
cctctagcaa	aaccaaggcc	ttctgtcatt	gc aaatggcc	tgcaaaacttg	agagtgtattg	1380
gaaatgcata	cccaccctcc	agaacccata	agagaccag	cgcctgagcc	cacacatggg	1440
agtagctcct	gagtacaggc	agggcaaggg	cgggaggcag	gaaggcagga	gccagatgat	1500
ggattagcac	aggaaggagc	acagcacctg	gagttgcttt	ttagtcttct	tcccaagaac	1560
tgcattggggc	tggcagggag	aggaggggaa	gtaggaggcc	acacgacacc	tggcacccta	1620
tgtatgtttt	ttattttttt	ttattttttt	gatggggata	agatttgcat	gacataaaat	1680
tagccatttt	aagactgact	catgccttaa	tcctagcact	ttgggaggcc	gaggtgggta	1740
cattgcttga	gtccaagagt	tcgagatcag	cctgggcaac	gtgtcaaaaac	ctcatctcta	1800
ctaaaaatac	aaaaatattag	caagcatgg	tggcacgcgc	ctgtggtccc	aggtactcga	1860
gaggctaaag	tggaggatca	cttgagcctg	ggagtccaag	gctgcagtga	gctatgattg	1920
caccaccaca	ctccgcctg	ggcagcagag	cgagaccggg	tctcaaaaaa	aaaaaaaaaa	1980
aaaaaatcat	tttcaagtga	gcaattcagt	ggcacttagt	acattcacaa	tgtgtacaa	2040
ccaccactga	gttccagaat	actttcatca	cccagaagg	aagcctgtac	ccactcacag	2100
tcactcccca	ttcccctctc	tcccaaccac	ctgccagtca	ccaatctgag	ccccatctct	2160
atggatctac	ctactctgga	tatctcatat	aaatggcatc	atacaatagt	tgacctctta	2220
tttagtttga	tggcaaggag	gggaaggagc	tgctgctgga	gccccctccag	gcccctgcctg	2280
aagcttctgc	ttgtggggaa	gtttctagat	gctcagaggg	agcagcccag	tctgccctag	2340
acctttgttt	acctccttct	ttggggctcc	gctgtgtagt	ggactgggtg	ccggtggtcc	2400
tgggcttttg	tctcagctca	gcagctgatg	cagagtcctc	agggaaagtg	ctgcacctct	2460
ctgggccccca	ggggtctcgt	atgtgaagcg	agcgggtgaa	cttgtgggtc	cctgttgctg	2520
cttttgacc	ccccactac	tcccaataag	ttctgaggag	agacgggact	ccctgtggta	2580
gagacaaagg	gccactgctg	attggagggg	aggaggtcca	gaagctcctt	ctaaaacgga	2640
aagaaagaga	ggggaagtgg	ccttgacctt	ggtccagcaa	ggggcagtg	gccaccagac	2700
ctcgtgggtt	ctctgccaac	catgagagcc	agtaaaagg	ataaagaagg	tgaccagggc	2760
aggagcagag	cccagtgtcc	aggggtgcac	aacggcctgc	ttccctccag	attgggtgca	2820
gccccagatg	ggtgacacca	ggatggccgt	gggcccagg	aggactggg	gaggaggccg	2880
cgtgtgtgtg	gtgtgtgctg	gccggcaggc	atgtgcaggc	ttctgtgtat	aatctggcct	2940
gtaaattgct	cggggactgt	aactgcggaa	agggccatag	agccgcgtgg	tgttattatt	3000
tatgataaag	cacagagggtg	cctgccaggg	actagaatgg	gctgagcact	gcgtgcagga	3060
tggacggcaa	attgaaactcc	aattttctgc	tcggcagctc	ttgttacacg	ccacaaagcg	3120
ctggtacacc	ggggtcacca	gcctgatgaa	tgtgtgttct	tcctcagcgg	tggctccatc	3180
tctcagcctc	cgtgcagaga	gcgactcgtg	ctttgttttt	tcctccctgc	ggggcccagc	3240
cttggaatct	gttcttgggc	tccaaacgca	gcctgggag	aggggagggtc	agaggccttg	3300
catggaggca	ggcggctatg	ggttcaaaac	ccagctctgc	cactgacaca	catgtgactc	3360
ggtacctctc	tcactctgagc	ttcagatgag	agaaataaaa	gagaagtcct	catagactc	3420
ccctaaggag	gctgggagga	ttaaatgggt	aaacatgcgc	tgctcagtg	ggagttaggc	3480
tttaacaaat	acccatcttt	ccttctgtgc	cctgggctga	gcagcctcgc	cctgaagcca	3540
ggaaattgag	gagaagcccc	tgaattggg	cagacaggcc	ccgtctgggg	gtggtgaggt	3600
caagccccta	aggacacctg	ctgtccagct	cagccctctt	tattcaatat	tgggaaacca	3660
atgctggtgt	taagtcagag	ccactgcccc	agctcccat	cttccccag	cttccatctc	3720
tc						3722

<210> 2048

<211> 278

<212> DNA

<213> Homo sapiens

<400> 2048

ctcgatttcc	aaatcagggtc	acatttctgag	gttttgggaa	ggacatgaat	ttgggggaga	60
catattcaac	ccaatacagg	catcacctag	tcttgtccca	cagatgactt	tattaaacat	120
cccttggtct	ccatgttggg	ccttactgtc	attcatttgc	cacatatttc	ccaagcatct	180
tctttgtctc	aggctctgtg	cccagtgcc	gggctataga	aaaacaggag	tcttggggcc	240
agctctcctg	gcattctgtg	gatgtgttct	gcttttct			278

<210> 2049

<211> 6504

<212> DNA

<213> Homo sapiens

<400> 2049

tcttagaaat	ggtttattga	caaattggctt	ctggggagggg	ggccaggatt	ccctcttagc	60
tacagaaggt	tccagggtcc	agctacaagc	agggccctcg	cacggggctc	acacagagca	120
aggccactca	gctggaatgt	ggccctcaa	caccactgcg	cccaggctcc	cggacactgg	180
acacctttgc	aggggtctgg	gtgtccctcg	agggcggggc	cggcttccct	cggggtgctc	240
ggtacttggt	cttctggccg	tagaacagg	tctctggaa	aagggtggga	aggcggccct	300
ggtgcagcag	cacagccagg	accatcctg	caagagaagg	cagggtcccag	gtggggcgcg	360
ggctcctggg	cccaaacaca	gacaggacac	ccactcccag	gcctgtgcca	ggacaggcga	420
gccaggcagc	ctggccagga	gccccaaaga	ccctgaggcc	cagctcctgc	ctggtcctgg	480
tcttcccgcc	ctggctcatg	ccctctctct	gggtatgcca	gcatggggga	cgggggag	540
ccggtggggg	tcttgttact	tctggaccac	cctctgggat	gagtgtactg	aattcccctc	600
ccccacatt	gtcctgagcc	actcccagag	cttctgtggc	cattttcctc	cgggacctga	660
tgtggcgctc	cagggtgggt	gcttgcaggg	ctgtggcctg	gcgtagaggt	gggggatgtg	720
agtggacaag	aaagatgtgg	agccctctg	gtgggaggct	gggcctgggt	aaatcctcat	780
gcgaacgttc	tcccagaact	ccaggagcag	agactcctaa	atccccgcct	gccttccagg	840
tcattgggaa	gggcagggtg	tccgggcaga	aggggagagt	agatcctctt	caagtttgat	900
ctcactcctc	taaggattta	acccacagt	tgtgagctcc	actagggctg	gctgagggg	960
gcctgcctg	tcaccacctg	cagctgctgt	ggctcctgac	agtggccctc	gtgcctacag	1020
cttgccctaca	gttgccctc	actcggccct	ccaggccac	actggctcta	gctctgttcc	1080
caggagggca	ggcccaggga	ggcgggatga	cctgctcagg	ggtgctgcca	gcagggtgcc	1140
gtggccgctc	acaccagggt	agatagcccc	atgtccacac	ctggctacgg	ggctcctggc	1200
tgcagccttg	gagctcccca	gggctcatgc	tgatactgaa	cttgtgggata	aaggggttaa	1260
tggaaggaca	caagcctggt	tttcggtttc	ctgaagctgc	cctaagatga	caggaaagg	1320
atgctgtcag	aggtgtcaag	catccagatg	gatgagacgg	gaagagagc	aggagcacag	1380
cgtggggctg	acaagcatgt	ggacgaccaa	acactgctga	catggagggg	cggatcgcc	1440
cctccgcagg	gacgaaagct	gggaaacaac	ccagttcttc	cgcagatgcc	ccatgctttc	1500
agaagctggc	gcccgggtcc	ctgtgggatg	gggtggccct	gggactcgcc	taggaggagg	1560
gacggcaatt	ccgcatggga	agctccaggg	ccccaaacct	caaaatacag	aagcagccag	1620
tgccccctc	cctggccctg	gcaggagaca	ggttcctctc	tagagggggc	atgtggactc	1680
gagtatcagg	cccggccaag	cctggagtcc	cgctgaaac	acggatccca	gcctcctcct	1740
acttggctcc	tagaagccgc	aaatgccctt	tgggttctc	acagaggca	gttctacagt	1800
gagaggttgc	agccgggtga	agagtatttc	cccagcgaca	cgcccttccc	agaacacagg	1860
atgtgccctt	gttagaatac	ggcctgggac	ataaaatcag	tgaaatcacg	gtgacgtcat	1920
acttgagtag	agtgaacctc	caattcgatg	actgggtgtc	ctatatgaag	agaacagaca	1980
atgacacaga	ggaggcggcc	aggggaaccg	gcagacatgg	gagtgtgtgc	tctccaagcc	2040
cggggacacc	gggggtgcca	gaggccccc	gagcccgga	gaggcaggag	gtcctcccc	2100
agcagcctcc	gaggagagct	gaccctgtca	gtgctgccag	ctcagactcc	agcctccaga	2160
gctggctgag	catacaacct	tgtcacgtga	agcctctcg	tttgcgtcct	ttgccttgta	2220
gcccgtgaag	ccaccacagg	ccatggttgg	ggcctgagaa	actcaggacg	aaactgagct	2280
cccacccgga	accctgccca	ggcctcaccg	acactcaagt	gcaggtcaga	accaggacac	2340

tattttcagac	acaggaggtc	tgaagtgtac	ctgccaggtc	cccgtttctca	ggaagctact	2400
gtgagacggg	caccagcaaa	aagaaggaat	caaccgaaac	aggaggcgat	gaggaaagca	2460
ggaaacagaa	atacaaccag	gatcagtga	gggcagcacc	ataccggaga	tggacgcctg	2520
cgggtaaccc	ggagctgcgg	atcctcgggg	gagacgctgc	ccacacagag	cactggtgct	2580
gaactaagga	aagcaccag	aagcctgggc	aggagagagt	ccaggacctc	gtcaccgcga	2640
ggaagcaagg	cctgtgcagg	agcggagagg	cctccggggc	caccacagct	cacccgggcc	2700
gtgtttccat	gccagggaac	tagagggggc	tctggagctg	atcaggagga	agaggccgac	2760
ccaccggag	tgaaggatcc	gcaggaggag	cgtggggagg	caaggaaaga	acatccgccc	2820
cccacatccc	aggagacagc	ccagggttga	tacctgaact	gaagagtctc	ggagaagccc	2880
tgcaggccca	gtgtgtgggg	acagagaggc	caacacggag	ctgttcctag	cagagggcag	2940
tgctgcctcg	gcaacggggg	caggaggggg	ttcctgatgc	acttcatatg	cttcctagga	3000
ccctgcacat	gcctgagaga	ctgtgaccac	atcagaacca	tggcgacaaa	tcacgatgac	3060
gtcagtgtca	ccatcgagag	gccagggtgcc	tgagagaccc	ccagctcctg	tctttccccc	3120
caaggggagg	ctgaggcatt	gcccctgaga	cctccccagt	gtagagccag	cagaagctga	3180
aaaaagcttc	cagaattcca	taggaaccca	gctgccttcc	tggtacctca	gtgagtggga	3240
gccgagtgtc	tgagagcagg	tgcaggagaa	ggtgtgggct	ccacctgggc	ctctgaagcc	3300
aggggccaga	atccccagat	ctaggtccaa	gagggggctc	catgacctcc	ccatgctgct	3360
cctctgcttg	gatccaggat	ataagaaaag	aggggcacac	actgtggggg	aactctgggg	3420
tcccctgtgt	gcatcagcga	gtcccgggtc	tgccccacca	ggatgcaaag	ggcctggctg	3480
ctccagcccc	atgtctcacag	ccctataagt	gcacgatggc	accctatatc	atctaagcgg	3540
ggctctctgc	ctcctgaggc	tttagggaca	ccagaatgag	ccccctcgg	cggagtctgg	3600
ctctgggtgt	gtggagatgc	cacctggggc	gggaacccca	ggtgcatggag	ccccactgc	3660
agacaccatc	ccccgtgtgc	ccagcaccac	ttgcaaggtt	ggcctttccc	cagcctgtgg	3720
cctccttacc	tggtctgagc	ttgctcgcca	ccgggacggc	gtccacagtg	agacatgccg	3780
tcacagcccc	tacccccgaa	accatgcccc	ctgcagagac	ctccccagga	gcactgacca	3840
ggcaccctca	cctccaccct	gcaggacccc	acgtgccagg	atgctctgtg	ggccccagca	3900
gccctagggg	ccccaccctg	cccctgccct	tacctgtcag	agggcccagc	cagtacacct	3960
gcacgtactc	cagtaaggtg	tgtcccagag	aggcaaaggt	cacagaggcg	gccagggcag	4020
ggttgaagaa	ggcagacgtg	aagggccccg	ctgtgggcag	agcaegaca	gccctggtcc	4080
ccagccctgc	ctgacgcccc	tctgcaggcc	aggacctgat	ccccgccacc	gaatccacac	4140
cagagacccc	actgtgtgca	ggcctggggg	ctgctctcgg	ctcctgaagc	cccgcctggt	4200
ccccgcacc	gatggacaca	cgatgcagca	aggccgggtc	agccaaggtc	tgggtcaggg	4260
gcagcagctt	ggggccccc	agggccgtcc	aacacccctg	cgacatctca	ccgggatccc	4320
gtgccccgcc	catgctgccc	tccagcacc	cacctgtgg	gatgtggcct	tcgagaaaga	4380
cggacagaga	gagatggaga	gagacactaa	gagagacaga	tagtgagaga	gagacaaaaa	4440
gacacagaga	gagacagggg	gacagagaga	gaggagagac	agagagagag	aggagagaca	4500
gagagagaga	ggagagacag	agagagagag	gagagacaga	gagagagagg	agagacagag	4560
agagagagga	gagacagaga	gagacagggg	gacagagaga	gaggacagac	agagagagag	4620
aggagagaca	gagagagaga	ggagagacag	agagagagag	gagagacaga	gagagagagg	4680
agagacagag	agagatctca	gaaataaacg	agcagcagca	gaggagagaa	gacgacatgg	4740
ctgtgcgatg	tgagacaagg	gaaggcggcg	gcagccgggc	cgctgtcctg	cagccccagg	4800
cctgggtgac	caccccaaat	aacagaatcc	accaataacc	gggacctgcc	tctgggcacg	4860
gaagagcagg	gagtgggcct	agcggagggc	aggccacaca	gggacatgga	gtctgcggcc	4920
gccaggtgt	aaaccaggac	cctgaggatg	ggcagctccg	tccctgagac	caggcgccct	4980
gtgcctcgtg	gaggcaggac	ccttgacggg	agctctccgg	tgccaccag	gacagaggcc	5040
cgggcaatct	gccacagagc	cgtgtccctg	cagagctccc	gctcaccctg	gcctcagttt	5100
ccccatctgt	acagggctct	ggtggcacct	tctgtgggcc	tttgtggtcc	agattccgtg	5160
gtgtctgccc	agtgtgggt	cgtgggcagt	gccatggacc	taagtgtctg	tctgtcctg	5220
attaggacct	cggacccccg	gaaggagacc	tggcaccatt	ctccctgcag	cccttctctg	5280
ggtgcctgga	gcacgagccg	gctcccctgg	ctctccctgc	agccccagcg	ctgtggacac	5340
ctgtcctggg	aacttgctga	gcaaaggctt	tcgtgggtgg	ggagcctagc	gctcggaggg	5400
gaaagcagac	atgggggact	ggatcagacg	gaggggtctga	gtggaggggg	ctcacaaggg	5460
ggtgatggga	ccatgagagc	tgggtgccac	ggtcggtcca	ggtgcaggca	gagatcgag	5520
gatgcagggtg	tcagtaggag	gccagggagg	ccaactgggg	caggtgagac	aggacctgtc	5580
gctctggaag	gggtgataga	gggtgcaggg	actcccacac	cagaccagga	aactgggctg	5640
ggccttgaat	cgtctgcctc	ggctgtccct	actacccag	aggcagaact	tctgggagga	5700
ccaagaatatg	ctgcgactgg	ggagaggtgc	agtgggcagg	atggccctgg	caggggacag	5760

gctgctccac	cgcaccccat	gtccagcgca	ggccctcgtc	taccgcccag	atcccaggaa	5820
atcacccgct	cttcttgttg	gtttgttggc	cacccgggcc	agcagccccc	tatcctgggt	5880
gcaaaccggc	ctgagtgtgc	atggaggcca	cacaggtgag	aggtcctcag	gggcccagg	5940
gaaggggaag	cagtgtctac	ccgtgttagc	cgtgacgggtg	accaacagag	ccacagcggg	6000
cccgtgttag	gcgggaggac	tgtgccgcag	gtgcaggagg	gtcagatgga	aacaaaaggc	6060
gcaggcggcc	tccacaagcg	cccgtggggg	cacggatgtg	cgcagggccg	agctgcagct	6120
ctggggccatg	aggctctgca	gcagggtgcag	gtcactgagc	tcccaggccc	agcagaggcg	6180
catcagggtg	caggcggcct	gcatgcccag	cccctgtgcc	gccagcttca	acagcgtgcc	6240
aggcagagac	tgctcggcca	tgaggaactc	ctgcagggac	acagtggggg	tggccgaggc	6300
cccgctccaag	gtgaccccg	gcgccaggaa	gagcaggaag	agcagggtg	gcagcaggtc	6360
aggcccaaag	tccccagccc	agggcccgag	ctcgaccagc	gtcctcatct	ccaggcagca	6420
gggcccagagc	tgcacccgca	cccaccgcct	cccgggcgaa	gacttcatag	gcgcccactg	6480
ggagcagggc	cttgagggcc	cgcc				6504

<210> 2050

<211> 397

<212> DNA

<213> Homo sapiens

<400> 2050

tcgcaaaaaca	aggggcgatt	ttatttcagc	tttgaacttt	ccaggctctgg	ggttcagaat	60
ttcctccagt	tagggaaggt	gtctggtcgc	ctccaaggag	gggaggcccc	aggctcttcg	120
actcccacag	gaaggccgcc	tgtccccctc	cccaacccat	ccactgact	cttcccagga	180
ggcagagaaa	ccctgggttc	agtagggctg	tggctgcctt	cggctgcctg	ttccctgtgc	240
aagtgccttg	ccctctcaga	ggagcagagg	aacctttctg	aacctgtaga	ggcctggcat	300
ctgcacaggg	aaaagccagg	ctttccctcg	tgggatcctg	tggagaaatga	gctcagacgg	360
attcctcata	ttctaataccg	acaccactgg	agacctt			397